

1980

BGSU 1980-1981 Undergraduate Catalog

Bowling Green State University

Follow this and additional works at: <https://scholarworks.bgsu.edu/catalogs>

Recommended Citation

Bowling Green State University, "BGSU 1980-1981 Undergraduate Catalog" (1980). *Course Catalogs*. 17.
<https://scholarworks.bgsu.edu/catalogs/17>

This Catalog is brought to you for free and open access by the University Publications at ScholarWorks@BGSU. It has been accepted for inclusion in Course Catalogs by an authorized administrator of ScholarWorks@BGSU.



Bowling Green State University

1980-1981 General Bulletin

1980-81 ACADEMIC CALENDAR

Summer Quarter

June 23, 1980 - Monday
July 4 - Friday
July 25 - Friday
July 28 - Monday
August 29 - Friday
August 30 - Saturday

Classes begin 7:30 a.m.
Holiday - no classes
First term ends
Second term begins 7:30 a.m.
Summer Quarter ends
Commencement

Fall Quarter

September 24, 1980 - Wednesday
November 26 - Wednesday
December 1 - Monday
December 8 - Monday
December 11 - Thursday
December 13 - Saturday

Classes begin 7:30 a.m.
Thanksgiving recess begins 7:30 a.m.
Classes resume 7:30 a.m.
Examinations begin 7:30 a.m.
Fall Quarter ends
Commencement

Winter Quarter

January 5, 1981 - Monday
February 16 - Monday
March 17 - Tuesday
March 20 - Friday
March 21 - Saturday

Classes begin 7:30 a.m.
Holiday - no classes
Examinations begin 7:30 a.m.
Winter Quarter ends
Commencement

Spring Quarter

March 30, 1981 - Monday
May 25 - Monday
June 9 - Tuesday
June 12 - Friday
June 13 - Saturday

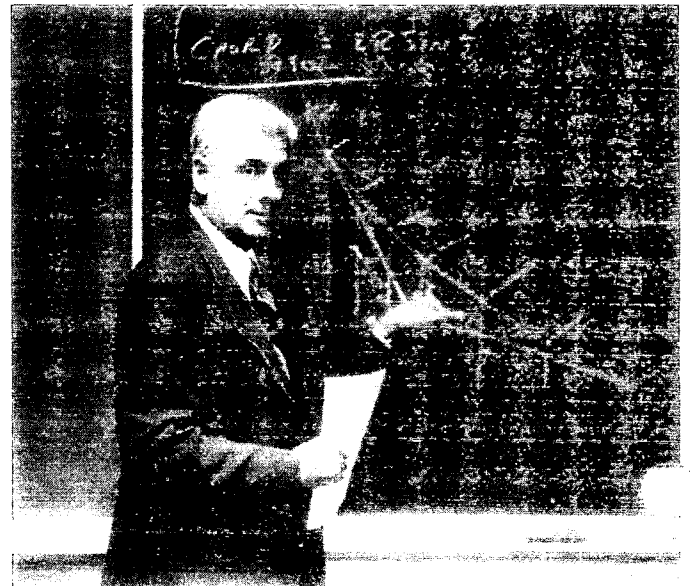
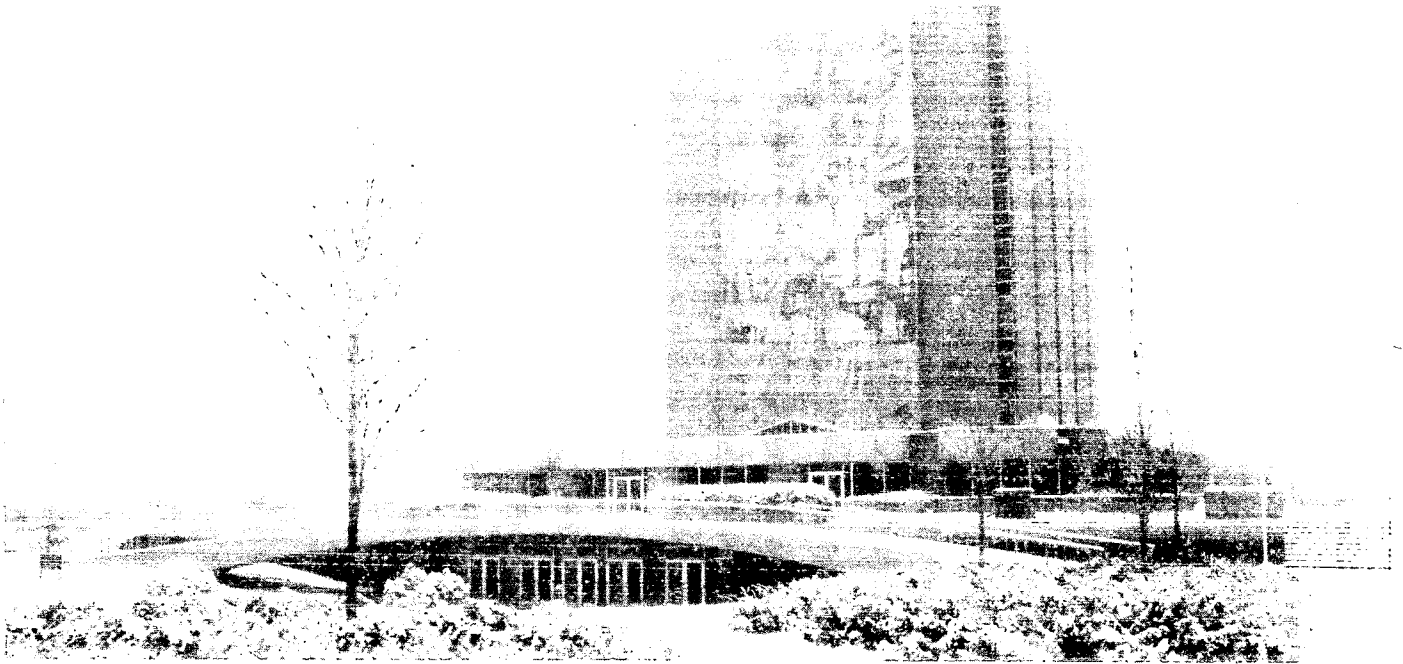
Classes begin 7:30 a.m.
Holiday - no classes
Examinations begin 7:30 a.m.
Spring Quarter ends
Commencement

WHERE TO GO

Admissions information	110 McFall	372-2086
Adviser, assignment of	Departmental office of major	
Advising, academic		
College offices		
Arts and Sciences	215 Admin. Bldg.	372-2015
Business Administration	371 Bus. Admin. Bldg.	372-2747
Education	444 Educ. Bldg.	372-0151
Health and Community Services	100 Health Center	372-0242
Musical Arts	Musical Arts Bldg.	372-2181
Minority Affairs, Office of	230 McFall	372-0262
University Division of General Studies	231 Admin. Bldg.	372-0202
Departmental offices		
Automobile registration	Parking Services, Commons Bldg.	372-2776
BG News	106 University Hall	372-2003
Counseling		
Counseling and Career Development Center	320 Student Services Bldg.	372-2081
Placement Service	360 Student Services Bldg.	372-2356
Psychological Services Center	309 Psychology Bldg.	372-2301
University Division of General Studies	231 Admin. Bldg.	372-0202
Changing majors	College offices	
Drop/add	Registrar, 110 Admin. Bldg.	372-0441
Employment, student	460 Student Services Bldg.	372-0252
Fact Line		372-2445
Fee payments	Bursar, 133 Admin. Bldg.	372-2815
Financial aid	450 Student Services Bldg.	372-2651
Health Service	Health Center	372-2271
Housing	440 Student Services Bldg.	372-2011
ID cards	Registrar, 110 Admin. Bldg.	372-0441
Library information	121 Library	372-2361
Loans	Financial Aid	372-2651
	450 Student Services Bldg.	
Organizations, student	Student Activities,	372-2951
	405 Student Services Bldg.	
Police (Campus Safety and Security)	Commons Bldg.	372-2346
Registering for classes	Registrar, 110 Admin. Bldg.	372-0441
Room and meal payments	Bursar, 133 Admin. Bldg.	372-2815
Scholarships	Financial Aid,	372-2651
	450 Student Services Bldg.	
Transcripts	Registrar, 110 Admin. Bldg.	372-0441
Validation cards	Bursar, 133 Admin. Bldg.	372-2815

CONTENTS

The University, 3
Academic Policies, 7
Special Academic Options, 11
Admissions, 13
Registration and Records, 16
Fees and Charges, 17
Housing, 20
Financial Aid, 22
Organizations and Activities, 24
University Services, 26
College of Arts and Sciences, 29
School of Art, 49
School of Speech Communication, 51
University Division of General Studies, 53
College of Business Administration, 57
School of Journalism, 67
College of Education, 71
Department of Home Economics, 83
School of Health, Physical Education, and Recreation, 86
School of Technology, 89
College of Health and Community Services, 97
School of Nursing, 103
College of Musical Arts, 105
Firelands College, 115
Graduate College, 126
Course Descriptions, 127
Student Code, 213
Administration and Faculty, 227
Academic Abbreviations, 246
Glossary, 249
Index, 251
Campus Map, inside back cover



THE UNIVERSITY

Bowling Green State University is situated on a 1,250-acre campus, which includes more than 100 buildings. The University offers more than 150 undergraduate degree programs, as well as 60 master's programs, 13 doctoral programs, four specialist's programs and 14 associate degree programs. More than 16,000 students, including about 2,000 graduate students, attend classes on the main campus. The University's total enrollment, including the Firelands College and various off-campus centers, is more than 19,000. At the center of the University's academic community are the 750 faculty members, who are engaged in teaching, research, and scholarship activities.

Established in 1910 as a teacher-training institution, Bowling Green held its first classes in 1914, but it was not until the following year that the first two buildings — now University Hall and Williams Hall — were ready for use. Student enrollment for that initial year totaled 304, with a faculty of 21. The first bachelor's degrees were awarded in 1917.

In 1929, the functions of Bowling Green were expanded to provide four-year degree programs in the College of Education and the College of Liberal Arts. The College of Business Administration and graduate programs were added in 1935, the year in which Bowling Green attained full university status. In 1947, the Graduate School was formed, and BGSU awarded its first doctoral degrees (in English) in 1963.

Beginning in 1946, extension programs of the University were offered in Sandusky, Ohio. During the next two decades, course offerings there were expanded and in 1965 a branch campus of the University was established to serve Erie, Huron, and Ottawa counties. That branch campus eventually became Firelands College, located in Huron, Ohio. Firelands College offers career and technical education leading to associate degrees in 14 areas, as well as the first two years of baccalaureate degree programs.

In the 1970s, three new colleges were developed to give a new dimension to the University's curricular offerings. In 1973, the College of Health and Community Services was established to provide degree programs in specialized areas in various health and community service fields. In 1975, the School of Music was expanded into the College of Musical Arts, and in the same year the Graduate School became the Graduate College.

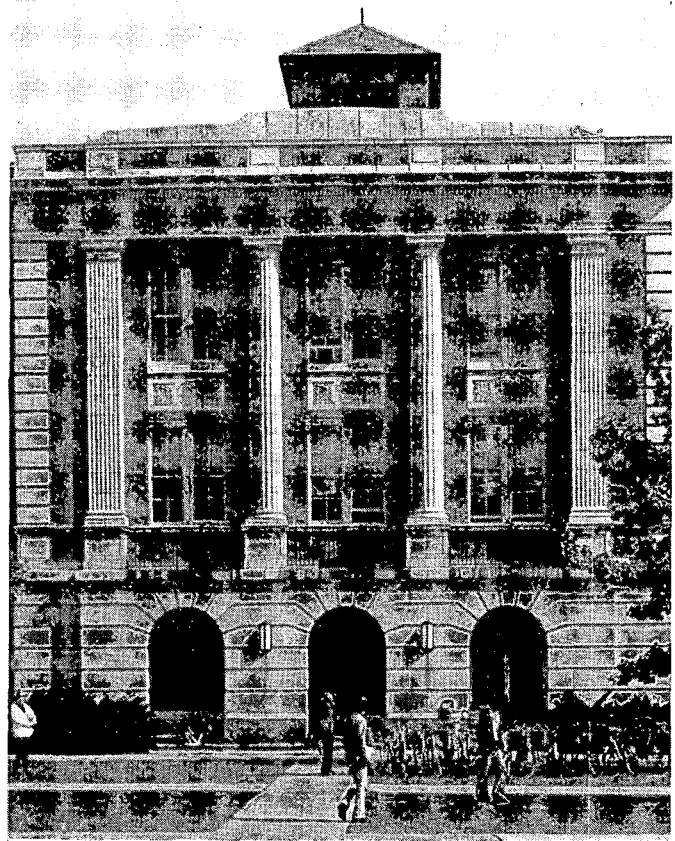
In addition to its degree programs, the University offers diverse opportunities for educational and cultural enrichment to the people of the area through its regional and continuing education programs, as well as through the intellectual and cultural activities that are an integral part of campus life.

THE CAMPUS

Included among the more than 100 buildings on the Bowling Green campus are some that were completed as early as 1915; more than half, however, have been constructed since 1960. Many are equipped with ramps and ground-level entryways for the handicapped.

The nine-story University Library is the focal point of the academic community. The design, open stacks, reading lounges, study carrels, and seminar rooms have been planned to create an atmosphere conducive to independent study. The Library houses a collection of approximately 650,000 volumes, 335,000 government documents, more than one million microforms, and 5,000 periodicals. Of special note is the music library collection which, with almost 175,000 recordings and audiotapes, is one of the largest of any academic institution in the nation. In addition, the Library contains a Curriculum Resource Center and a special materials section, which includes the popular culture and rare books collections.

Among the facilities in the science-research complex are the Psychology Building, the Mathematical Sciences Building, the Life Sciences Building, and Overman Hall. These provide specialized research equipment and



laboratories to serve the needs of students in a variety of disciplines. An added phase of the science complex is a new physical sciences building, which is scheduled to be completed by fall quarter 1981 and which will include a planetarium and observatory.

The Technology Building contains research modules, a computer graphics center, and specialized laboratories in design, electronics, manufacturing, visual communications, and other technologies.

Art facilities are located throughout the campus and include individual studios for design and workshops for such art areas as jewelry making, wood working, painting, drawing, enameling, weaving, print making, sculpture, ceramics, and glass blowing. Photography laboratories are also available at several campus locations. An art gallery located in the Fine Arts Building annually features exhibits of works by faculty and students.

The campus radio stations, WFAL-AM and WBGU-FM, provide students with practical experience in daily station operations. Students also support the professional staff in the programming and activities of WBGU-TV, a regional public television station located on campus which serves northwest Ohio and northeast Indiana.

Theatre students at the University have many opportunities to participate in all phases of the theatre experience through annual productions held in University Hall's Main Auditorium as well as the Joe E. Brown Theatre.

The Musical Arts Center, completed in 1979, provides extensive and modern facilities for the University's music programs and activities. Constructed around an open courtyard, the music center includes an 850-seat concert hall, a 250-seat recital hall, as well as practice rooms, rehearsal halls, classrooms, studios, and a variety of special facilities designed for specific areas of performance and instruction.

The focal point of campus recreational activity is the Student Recreation Center, also completed in 1979. Among the facilities contained in the recreation center are two swimming pools, 14 handball/racquetball courts, a running track, and basketball/volleyball/tennis courts, as well as areas designed for games and table sports. Other campus athletic and recreational facilities include a 22,000-seat football stadium, an ice arena, an 18-hole golf course, and 25 tennis courts.

The University Union is a center for social and cultural activities on campus. There are four food service facilities and 26 guest rooms in the Union, and a wide range of lectures, concerts, and other activities are presented in the Grand Ballroom, located on the second floor.

Completed in 1976, the Mileti Alumni Center is the hub for the many activities of the University's alumni. It contains meeting rooms, a library, and an art gallery which features works by alumni, faculty, and students.

The University art gallery is located in McFall Center, which also houses administrative offices.

Other campus buildings house classrooms and facilities for programs in business administration, education, and the humanities.

CENTER FOR ENVIRONMENTAL RESEARCH AND SERVICES

The Center for Environmental Research and Services, 124 Hayes Hall (372-0207), coordinates and facilitates multidisciplinary basic and applied research related to environmental needs and environmental monitoring. Programs involve students as well as faculty in field, laboratory, and library studies. Special services and training also are provided for both on-campus and off-campus audiences through workshops, conferences, and special lectures.

CENTER FOR THE STUDY OF POPULAR CULTURE

The Center for the Study of Popular Culture is the national headquarters of the Popular Culture Association and the American Culture Association. The Center houses the Popular Press which publishes, among other works, *The Journal of Popular Culture*, *The Journal of American Culture*, and *The Journal of Popular Film and Television*. The Popular Culture Library has extensive collections of popular literature, both fiction and nonfiction. These include a variety of comics, serials, paperbacks, and magazines. The Music Library houses 70,000 LPs, 70,000 45 rpm discs, 30,000 78 rpm discs, and 800 cylinder recordings. Among its collections on tape are more than 600 hours of old radio shows.

DROSOPHILA STOCK CENTER

The Drosophila Stock Center serves as a resource center for genetic research on an international scale. The Center, which maintains the world's largest stock of Drosophila fruit flies, is engaged in the study of such areas as the effects of industrial and environmental chemicals on genetic mutation. Drosophila specimens from the Center are provided to laboratories throughout the world.

MANAGEMENT CENTER

The Management Center is the continuing education and consulting division of the College of Business Administration. It offers noncredit training and consulting services to organizations throughout the Midwest. Seminars are offered year-round on the BGSU campus. Subjects frequently covered include time management, supervision, sales management, data processing, and employment interviewing.

PHILOSOPHY DOCUMENTATION CENTER

The Philosophy Documentation Center collects, stores, and disseminates bibliographic and other types of information in philosophy. The Center's major publication is *The Philosopher's Index*, a subject and author index with abstracts of all major philosophy journals in English, French, German, Spanish, Italian and other selected languages, and other related interdisciplinary publications.

CENTER FOR ARCHIVAL COLLECTIONS

The Center for Archival Collections, located on the fifth floor of the University Library, is responsible for preserving and making available to researchers archival and manuscript material relative to northwest Ohio, the Great Lakes shipping scene, and the University. Much of this is maintained through an extensive microfilm program.

Among the materials available are local government records, newspapers, census records, photographs, and rare works concerning the 19 counties served by the Center, as well as photographs, books, pamphlets and other Great Lakes materials. University Archives is responsible for the preservation and care of all BGSU institutional records deemed of historical value, including the *BG News*, yearbooks, and other University publications, as well as the records and correspondence of campus organizations and offices.

The Center also houses the Historic Preservation Office for northwest Ohio, which seeks to record and preserve historic sites, and to disseminate preservation information in an eight-county area.

CENTER FOR CONTINUED LEARNING

Located at 194 South Main Street, Bowling Green, the Center for Continued Learning is a community-based extension of the Office of Continuing Education, Regional and Summer Programs. The Center provides information, guidance, and support for persons thinking of returning to school, entering employment, changing careers, or becoming active in the community. Vocational and educational counseling, a career library, noncredit short courses, workshops, university referral, and outreach programs are among the services it provides to adults in northwest Ohio.

CENTER FOR ENVIRONMENTAL PROGRAMS

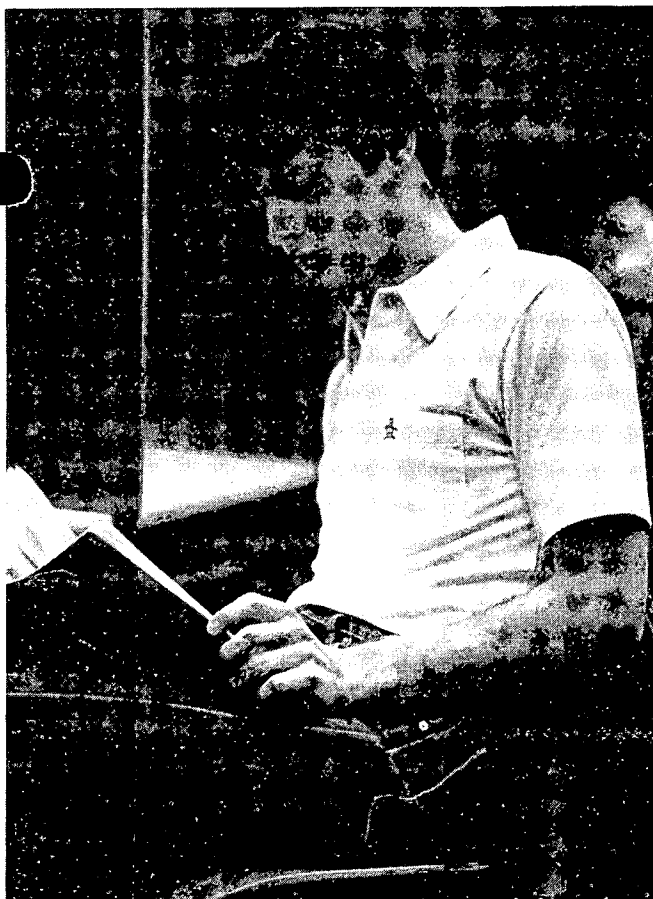
The staff of the Center for Environmental Programs, 124 Hayes Hall (372-0207), is responsible for coordinating, facilitating, and monitoring a variety of academic programs relating to the environment. Four-year programs are available in the College of Arts and Sciences, the College of Education, and the College of Health and Community Services. In addition, one- and two-year programs in environmental health are available at the Firelands College. In cooperation with academic advisers in the various colleges, the Center staff assists students in selecting the program options that can best fulfill their goals and provides a comprehensive overview of all the options. An Environmental Resource Room (127 Hayes Hall) is maintained by the Center, in cooperation with the Center for Environmental Research and Services. It contains current periodicals, technical information, general environmental literature, and curriculum materials for environmental education.

Academic goals of the University

Bowling Green State University is dedicated to providing quality academic programs in a learning environment which promotes academic and personal excellence in students, as well as appreciation of intellectual, ethical, and aesthetic values. Wisdom, sound judgment, tolerance, and respect for other persons, cultures, and ideas are the hallmarks of an educated person and the characteristics which the University hopes to develop in its students.

The extent to which these goals are met depends on the intellectual and cultural environment of the University, the wisdom and dedication of its faculty, and the intellectual curiosity, ability, and energy of its students. To this end the University strives to attract the most qualified students and provide them with faculty committed to the goals of quality education, productive research, and scholarly achievement.

Through a vigorous program of curricular evaluation and development, Bowling Green State University seeks to ensure that those who earn a baccalaureate degree from any of the colleges of the University will have acquired practical and theoretical understanding in a specific area of specialization; demonstrated competency in critical



thinking, problem solving, reading, writing, speaking, computation, and mathematics; acquired a fundamental breadth of knowledge in literature, the fine arts, and the other humanities, as well as in the natural, social, and behavioral sciences; experienced personal growth through interaction with all elements of the University community and through exposure to other cultures; and enjoyed the opportunity to explore diverse individual academic interests through the variety of courses and programs available at the University. The baccalaureate degree, which is designed to accomplish these objectives, has three chief components: the program major, which may include a cognate minor area of concentration; the general education component with its focus on skills and broad functional understandings; and the elective courses, which provide the opportunity to discover and explore new intellectual horizons.

Accreditation and recognition

The University is fully accredited at the bachelor's, master's and doctoral levels by the North Central Association of Schools and Colleges. Several colleges and departments of the University are accredited in their respective fields. These specific accreditations are: American Assembly of Collegiate Schools of Business (AACSB), College of Business; National Council for Accreditation of Teacher Education (NCATE), teacher education; State Department of Education, teacher education; National Association of Schools of Music (NASM), College of Musical Arts; American Chemical Society, chemistry; American Psychological Association, psychology; the National League for Nursing, nursing; Council on Rehabilitation Education, rehabilitation education; American Council on Education for Journalism, journalism; Council for Social Work Education, social work; American Medical Record Association, medical record technology, Firelands College.

Academic organization

Courses of instruction leading to baccalaureate degrees are provided through: 1. The College of Arts and Sciences,

which includes the School of Art and the School of Speech Communication; 2. The College of Business Administration, which includes the School of Journalism; 3. The College of Education, which includes the School of Health, Physical Education, and Recreation and the School of Technology; 4. The College of Health and Community Services, which includes the School of Nursing; 5. The College of Musical Arts. Associate degrees are available through Firelands College and the College of Business Administration. Graduate degrees are offered through the Graduate College.

An undergraduate student enrolls in one of the six colleges — Arts and Sciences, Business Administration, Education, Firelands, Health and Community Services, or Musical Arts. One who has been graduated with the bachelor's degree and who wishes to do advanced study in some particular field enrolls in the Graduate College. Information regarding graduate study is given in the *Graduate Bulletin*.

The University places an emphasis on the liberal education of freshman students and on careful advising for students, especially those undecided about their major. The University Division of General Studies provides academic advisers to help the student meet the requirements of the specific degree-granting undergraduate college in which he or she may eventually enroll.

Degrees offered

Four-year undergraduate programs are available leading to the following degrees:

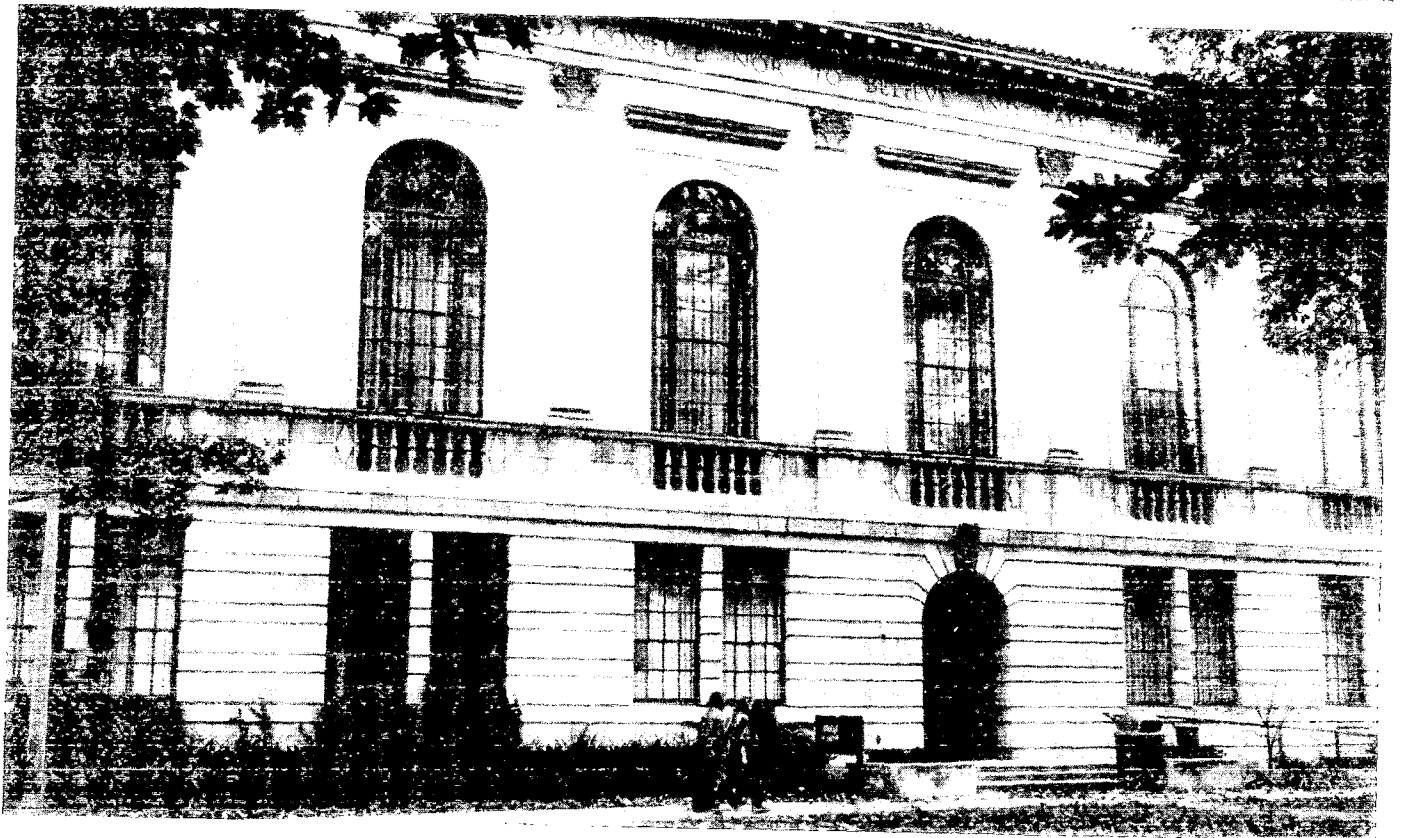
Bachelor of Arts
 Bachelor of Arts in Communication
 Bachelor of Fine Arts
 Bachelor of Liberal Studies
 Bachelor of Music
 Bachelor of Science
 Bachelor of Science in Applied Microbiology
 Bachelor of Science in Business Administration
 Bachelor of Science in Child and Family Services
 Bachelor of Science in Criminal Justice
 Bachelor of Science in Dietetics
 Bachelor of Science in Economics
 Bachelor of Science in Education
 Bachelor of Science in Environmental Health
 Bachelor of Science in Gerontology
 Bachelor of Science in Journalism
 Bachelor of Science in Medical Records Administration
 Bachelor of Science in Medical Technology
 Bachelor of Science in Nursing
 Bachelor of Science in Parasitology and Medical Entomology
 Bachelor of Science in Social Work
 Bachelor of Science in Speech Pathology and Audiology
 Bachelor of Science in Technology

Graduate instruction is provided leading to the following degrees:

Doctor of Philosophy
 Master of Accountancy
 Master of Arts
 Master of Arts in Teaching
 Master of Business Administration
 Master of Education
 Master of Fine Arts
 Master of Music
 Master of Organization Development
 Master of Rehabilitation Counseling
 Master of Science
 Specialist in Applied Biology
 Specialist in Education

Two-year programs are available leading to the following associate degrees:

Associate of Arts (Firelands)
 Associate of Applied Business (Firelands and business administration/main campus)
 Associate of Applied Science (Firelands)



ACADEMIC POLICIES

General Bulletin: Function and Use

The University reserves the right to change its course offerings and academic requirements for the baccalaureate degree. To protect students from unnecessary penalty where these changes occur, the following policies in regard to the *General Bulletin* are in effect:

1. Students' academic requirements are based upon the *General Bulletin* in force during their first quarter at BGSU.
2. Students may elect to complete a program under the most recent *General Bulletin*. If this choice is made, then the student must complete all additional requirements for the program selected.
3. Students who transfer from one BGSU college to another follow the *General Bulletin* in effect at the time of the transfer.
4. Students who transfer from other institutions follow the *General Bulletin* in effect at the time of their initial registration for courses at BGSU.
5. Students who initiate but do not complete a program and return to the University follow the *General Bulletin* in effect at the time of return.
6. Questions concerning catalog policy are directed to the appropriate academic dean.

Except as specifically stated herein, Bowling Green State University makes no representation or contract that following a particular course or curriculum will result in specific achievement, employment, or qualification for employment, admissions to degree programs, or licensing for particular professions or occupations.

Baccalaureate Degree

The baccalaureate degree program should enable all students to achieve the intellectual, ethical, and cultural maturity which will allow them to become responsible participants in our society. The University curriculum for the degree has three components: general education, which focuses on skills and understandings; the major, which may include a minor area of concentration; and the elective courses which provide the opportunity to explore intellectual pathways of the student's choice.

General education addresses two areas of intellectual competency: skills and functional understandings. Students must demonstrate in their general education courses competency in reading and writing, computation and mathematics, problem-solving and critical thinking, and the ability to integrate values in decision-making. Functional understandings are addressed in four areas: literature, the fine arts, and other humanities; problem-solving skills and methods of the natural sciences; models of inquiry in the social and behavioral sciences; and an understanding of at least one culture other than one's own.

The major provides the student with practical and theoretical knowledge in depth in one particular area of study. The electives allow the student to explore diverse individual academic interests, or interests which relate to the major.

Dual Degree Programs

A candidate for an undergraduate degree from one college who desires to take a second degree from another college within the University may:

1. take work in the second college after graduating from the University with his or her degree from the first college, or
2. qualify for the dual degree program. On the basis of the accumulative grade point average (GPA), a student may register in both colleges for the dual degree as soon as eligible.

A student desiring a dual degree must:

1. secure permission of the deans of both colleges before the end of the junior year;
2. maintain an accumulative grade point average (GPA) of 3.0 or better based upon at least two quarters of work at Bowling Green;

3. complete the requirements of both colleges for the degrees sought; and

4. complete at least 30 hours of credit beyond the hours required for a single degree.

Requirement of Writing Proficiency

The University requires all students to demonstrate a satisfactory level of writing proficiency. Recognizing that the ability to communicate in writing is a valuable skill and a hallmark of an educated person, the University requires that each student enrolled in a baccalaureate or associate degree program is required to complete satisfactorily ENG 112 or to give evidence of proficiency in written expression equivalent to that attained by the student who satisfactorily completes the course. No student can be excused from meeting this requirement, nor can the requirement be postponed.

The courses and services designed to aid students in meeting the writing requirement are coordinated through the General Studies Writing program. The English Placement Test, administered through this program, assesses the writing skills of entering students. On the basis of this test, students are placed in ENG 110 (Developmental Writing), ENG 111 (Introductory Writing), or ENG 112 (Varieties of Writing). A student may be required to take two or three of these courses, but no more than eight hours of credit earned in these courses may be applied toward graduation. The writing proficiency of students is evaluated at the end of each course until students have reached the University proficiency requirement expected at the end of ENG 112. Students who wish to receive transfer credit for English composition from technical schools, junior colleges, and community colleges, as well as students who wish to be exempted altogether from English composition, are also tested for writing proficiency.

GENERAL REQUIREMENTS FOR THE BACCALAUREATE DEGREE

A candidate for a baccalaureate degree must complete the requirements listed below and any additional requirements set by the colleges for the specific degree sought. Check the appropriate sections of this *Bulletin* for additional degree requirements. The general requirements are:

1. Satisfy all University entrance requirements.
2. Earn a minimum of 183 quarter hours of credit, at least 45 of which must be completed at Bowling Green immediately before graduation (some degrees require more than 183 hours of credit).
3. Earn an accumulative grade point average of at least 2.0 ("C") for the quarter hours required for graduation.
4. Complete three quarter hours of general physical education activities courses (PEG 100) preferably in the freshman year unless complete credit is granted for experiences in the U.S. Armed Forces or waived for a physical handicap. In the case of the latter exception, a student must obtain a certificate from a University physician and the approval of the dean of the college in which the student is enrolled. One-hundred-level PEG activities courses must be completed before the student enrolls in PEG activity courses at the 200 level.
5. Complete ENG 112, preferably in the freshman year.
6. Complete at least 60 hours of credit in courses numbered 300 and above. If a senior takes a course numbered 100-199 (except foreign language or computer science), he or she must take an additional hour as a graduation requirement.
7. Satisfy all course requirements for the degree as listed in the appropriate sections of this *Bulletin*.
8. File an application for graduation according to the following schedule:
 - a. For graduation in December, an application must be filed by the preceding October 10.
 - b. For graduation in March or June, the deadline for filing an application is the preceding January 15.
 - c. For graduation in August, the filing date deadline is the preceding June 25.

An application form and information may be obtained at the Office of Registration and Records, 110 Administration Building. A student not accepted as a candidate under the above procedure or who does not fulfill requirements toward a degree within four weeks after commencement must apply again for the next commencement.

GENERAL REQUIREMENTS FOR THE ASSOCIATE DEGREE

A candidate for an associate degree must complete the requirements listed below and any additional requirements set by the colleges offering this degree. The requirements are:

1. Satisfy all University entrance requirements.
2. Earn a minimum of 93 quarter hours (some degrees require more than 93 hours of credit).
3. Earn an accumulative grade point average of at least 2.0 ("C") for the quarter hours required for graduation.
4. Complete three quarters of general physical education activities courses (PEG 100), preferably in the freshman year. PEG 100 courses are not required for the Associate of Applied Science or for the Associate of Applied Business and may be waived for the Associate of Arts if a student is over age 25.
5. Complete ENG 112, preferably in the freshman year.
6. Complete all course requirements for a degree program as listed in the appropriate section of this *Bulletin*.
7. File an application for graduation according to the following schedule:
 - a. For graduation in December, an application must be filed by the preceding October 10.
 - b. For graduation in March or June, the deadline for filing an application is the preceding January 15.
 - c. For graduation in August, the filing date deadline is the preceding June 25.

An application form and information may be obtained at the Office of Registration and Records, 110 Administration Building, or the Registration Office in the East Building at Firelands. A student not accepted as a candidate under the above procedure or who does not fulfill requirements toward a degree within four weeks after commencement must apply again for the next commencement.

CLASSIFICATION OF STUDENTS

Classification of a student as a freshman, sophomore, junior, or senior is determined on the basis of credit hours earned.

In a baccalaureate degree program requiring a total of 183 quarter hours, a student is classified as follows: freshman, 0-44 hours; sophomore, 45-89 hours; junior, 90-134 hours; senior, 135 hours to graduation.

A student who is enrolled for undergraduate course work but who does not have a degree goal is an unclassified undergraduate student. A student who has earned a degree and who desires to register for undergraduate courses without pursuing another degree enrolls as an unclassified degree-holder.

CHANGE OF COLLEGE OR MAJOR

A student whose goals have changed may wish to change to another college or major. Before changing to another college a student should explore the requirements of the desired college. To change to another college, a student must have at least a 2.0 accumulative grade point average and obtain the approval of the college to which the student is transferring. The transfer also must be officially recorded by the dean's office of the college from which the student is transferring.

A student who would like to change his or her major within the same college should notify the college office, at which time an appropriate adviser is assigned.

Academic advisers are available in the college offices to help students select the degree program that best meets individual needs and interests.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University in good standing must obtain the permission of the dean of the college in which he or she is enrolled. If a student leaves the University without proper notice and permission, a mark of "WF" is recorded in all courses for which the student is currently enrolled. The student is not entitled to any refund of fees nor to a certificate of honorable dismissal.

A student who withdraws with permission from the University receives a mark of "W" in all courses unless the student has previously withdrawn from a course with a "WF." A student who withdraws from the University within three weeks of the end of the quarter is not permitted to enroll for the next quarter except by special permission of the dean of the college.

When, in the judgment of the medical staff of the Student Health Service, the physical or mental condition of a student is such that continuation in the University might be disadvantageous to the health or welfare of that student or others on the campus, the University may require the withdrawal of the student from the University.

See Refund of Fees under Fees and Charges, page 17.

EQUAL ACCESS TO UNIVERSITY PROGRAMS

Bowling Green State University provides equal educational and employment opportunity regardless of race, sex, color, national origin, geographical area, religion, creed, age, marital status, mental or physical handicaps, or veteran status. The University will not knowingly cooperate with, support, or employ the services of other organizations that discriminate against persons on such grounds. However, if any student with a physical disability requires special individual services or equipment, the student will be responsible for the expenses thereof. This policy includes the expense of providing personal tutors, personal attendants, medical technicians and so forth. The University will assist such students in communicating with proper community or government agencies to secure any available financial assistance to meet their needs.

GRADING POLICIES

GRADING SYSTEM

The following system of marks is used in reporting and recording a student's proficiency in courses: "A" — excellent; "B" — good; "C" — acceptable; "D" — poor but passing; "F" — failure; "WF" — withdrawn failing.

In the experimental studies courses, student teaching, internship courses, remedial courses, and the required courses in health and physical education, the marks used are "S" — satisfactory, and "U" — unsatisfactory. "S" indicates course credit, and "U" indicates no credit.

A student may request the S/U grading option in as many as 12 courses in a baccalaureate degree program in addition to courses universally graded on an S/U basis. The student is permitted more than one S/U option in a quarter provided that the number of such registrations does not exceed three in an academic year or four in an academic year and the succeeding summer quarter. (Note: Exercising the option to take courses on an S/U basis will raise the required grade point average for graduation with honors. See Academic Honors.) The option must be declared at the Office of Registration and Records no later than 21 calendar days after the beginning of classes for a quarter. The S/U option is permitted in courses taken as fulfillment of major, minor, and group requirements or electives in accordance with standards established by the appropriate undergraduate college and departmental councils. College and departmental standards on S/U options are available to the student through the academic adviser. Failure to process an official withdrawal from S/U courses will result in a final grade of "WF" (withdrawn failing) which will be used in grade point average computation.

The grade of "S" is interpreted as falling within the range of "A" to "C" and carries full credit. A grade of "U" is interpreted as "D" to "F" and carries no credit. A grade of "P" (progress) is interpreted as progress being made in a course without actual completion of the course. "S," "U," or "P" grades do not affect the accumulative grade point average.

A student withdrawing from a course may receive the grade "WP" — withdrawn passing or "WF" — withdrawn failing. A student who officially withdraws during the third through sixth week of a course and is in good standing in that course receives the grade "WP." A student who is failing at the time of official withdrawal from a course during the third through sixth week of a quarter, or who withdraws after the sixth week, or who fails to process an official withdrawal from a course receives the grade "WF." A student who withdraws from the University with the permission of the University receives a mark of "W" (withdrawn) in all courses, unless the student has previously withdrawn from a course with a "WF."

See Incomplete Marks, this page.

See Withdrawal from University, page 8.

Grade point average

To facilitate the averaging of grades, the following quality points are assigned to each mark:

For each hour of "A" — 4 points;

For each hour of "B" — 3 points;

For each hour of "C" — 2 points;

For each hour of "D" — 1 point;

For each hour of "F" or "WF" — 0 points;

For each hour of "I" — 0 points after the deadline for removal.

A student's grade point average is obtained by dividing the total number of quality points earned by the total number of hours taken excluding courses in which the marks "S," "U," "P," "W," or "WP" are recorded. The hours for which a mark of "I" is recorded are excluded from grade point average computation until the deadline for removal.

As an example, a student receives the following grades for a quarter:

Biology (a 5-hour course)	B
English (a 4-hour course)	B
French (a 4-hour course)	C
Health (a 3-hour course)	A

First, determine the number of quality points earned for each course. For example, each hour of B is worth 3 points and a 5-hour B is worth 15 points (3×5). Therefore, the above grades translate into quality points as follows:

$$\begin{aligned} 5 \text{ times } 3(B) &= 15 \\ 4 \text{ times } 3(B) &= 12 \\ 4 \text{ times } 2(C) &= 8 \\ + 3 \text{ times } 4(A) &= 12 \end{aligned}$$

16 hours 47 quality points

Now, divide the number of quality points by the number of hours earned. The grade point average for this sample schedule is 2.9375 or 2.93. Grade point averages are not rounded up to the nearest hundredth of a point.

INCOMPLETE MARKS

The mark of "I" — incomplete — is given when for some acceptable reason, a student fails to meet a definite requirement in a course as established by the instructor. (In courses graded only on an S/U basis and in courses elected to be taken on an S/U basis, a grade of "U" is recorded until the work is satisfactorily completed.) The mark of "I" may be removed and a grade may be substituted for it by a student making up the deficiencies to the satisfaction of the instructor.

Unless an extension of time is granted by the academic dean, a mark of "I" or "U" must be removed by February 15, May 15, August 15, and November 15 for the fall, winter, spring, and summer quarters respectively. Incompletes not removed by these deadlines will be computed as "F" in the accumulative grade point averages of all undergraduate

students with or without an extension of time. The student who has been granted an extension, however, will have the opportunity to have his or her grade point average recalculated. The grade entry on the permanent record remains an "I."

GRADE APPEALS

Students have a right to appeal decisions on grades. The student should first contact the department from which the grade was received. A member of each department is designated and will act as the arbitrator in appeals cases. If the matter is not resolved at the department level, the student may request a hearing before the academic arbitration board of the appropriate school or college. However, the sole responsibility and authority for determining grades rests with the faculty member who assigned the grade. The appeals procedure also may be used if a student believes he or she should be provided an opportunity to make up work missed during his or her absence from classes.

ACADEMIC HONORS

Full-time undergraduate students who demonstrate a high level of excellence in academic work have their names placed on the Academic Dean's List. The requirement for achieving the Academic Dean's List is a grade point average of 3.5 or above in the preceding quarter with not less than 12 credit hours included in the grade point average computation.

The record of each senior with a very high point average is carefully reviewed by the University Committee on Honors and Awards in order that appropriate recognition and honor may be accorded each student who has achieved outstanding academic success throughout four years of college.

In determining academic honors, total letter-graded credits (TLC) are credits for those courses graded A, B, C, D, or F.

Cum laude

Signifies a high level of academic achievement and graduation with praise. The granting of this honor is calculated by the following formula: 85 divided by total letter-graded credits (TLC), to which is added 3.0. If the result is above 3.5 and if the student has earned at least 90 TLC, the honor is granted provided the student's accumulative grade point average is equal to or greater than the result of the formula.

Magna cum laude

Signifies a very high level of academic achievement and graduation with great praise. The granting of this honor is calculated by the following formula: 130 divided by the TLC, to which is added 3.0. If the result is above 3.75 and if the student has earned at least 130 TLC, the honor is granted provided the student's accumulative grade point average is equal to or greater than the result of the formula.

Summa cum laude

Signifies the highest level of academic achievement and graduation with great praise. The granting of this honor is calculated by the following formula: 150 divided by the TLC, to which is added 3.0. If the result is above 3.9 and if the student has earned at least 150 TLC, the honor is granted provided the student's accumulative grade point average is equal to or greater than the result of the formula.

Transfer credit

In the case of transfer credit, each record is studied and evaluated individually. In general, the following principles serve as guides: 1. A student entering the University with up to 100 hours of transferred credit must meet the accumulative grade point average standard for honors in all hours completed, transferred and otherwise, which are considered jointly, with the added stipulation that the point average of all work taken at Bowling Green State University must be of honors quality; 2. A student who transfers more than 100 hours of credit usually is not considered for honors; 3. To be considered for honors, a candidate should have residence of at least one academic year or 45 hours in

consecutive summers (attending either one quarter or both of the terms each summer) immediately preceding graduation, with the exception that a student with written permission to participate in an approved combination curricula in cooperation with a professional school or college of another institution may be reviewed for honors.

In reviewing the record of a candidate for honors, each case is judged on its own merit to insure that an award reflects outstanding achievement.

REPEATING A COURSE

A student may repeat a course in which he or she has received an "F" or "WF" (failing grades) or, with the approval of the dean of the college in which he or she is enrolled, a student may repeat a course in which a low grade was received. When a student repeats a course in which a failing grade was received, or has received a "D" in a course in which a grade of at least "C" is prerequisite for another course, only the credit hours and quality points for the repeat registration are used in computing the point average. Such courses may only be repeated at Bowling Green State University. For other courses that are repeated, the grades and credit hours for both the first and subsequent registrations are counted in computing the student's grade point average. If the student repeats a course in which he or she previously earned a passing grade, only the credit hours earned in the latest registration are applicable toward a degree.

If a course was originally taken for a letter grade ("A," "B," "C," "D," "F," "I"), it must be repeated for a letter grade if the student desires to eliminate the first grade from the accumulative grade point average computation.

The student must report the repetition of any course which is taken to improve the accumulative GPA to the Office of Registration and Records each quarter.

UNSATISFACTORY ACADEMIC PROGRESS

Academic Warning

The freshman or sophomore is warned of unsatisfactory progress when his or her accumulative point hours and quality points indicate a deficiency from a "C" (2.0) average by more than five quality points. (See Grade Point Average, page 9.)

Academic Probation

The academic standing of a freshman or sophomore is considered unsatisfactory and the student is placed on academic probation when the accumulative point hours and quality points indicate that the student is deficient from a "C" (2.0) average by more than 10 quality points. (See Grade Point Average, page 9.)

The academic standing of a junior or senior is considered unsatisfactory and that student is placed on academic probation when the accumulative point hours and quality points indicate that the student is deficient from a 2.0 average by more than five quality points.

A student on probation because of unsatisfactory academic standing must follow a restricted program as follows:

1. The course load must not exceed 16 hours and may be less if so determined by the college dean;
2. The student may not take part as a performer or an officer in any meeting or conference except for an activity begun the preceding quarter. A student on probation cannot compete in intercollegiate athletics.

Academic Dismissal

The freshman or sophomore student is academically dismissed from the University when the accumulative point hours and quality points indicate deficiency from a 2.0 average by more than 15 quality points. (See Grade Point Average, page 9.)

The junior or senior student who is not in good standing at the beginning of fall quarter is academically dismissed when grades are deficient from a 2.0 accumulative average by more than 10 quality points.

A junior or senior who is in good standing at the beginning of the fall quarter may enroll for the winter and spring quarters of the same year without regard to academic standing at the close of the preceding quarter.

See Refund of Fees under Fees and Charges, page 19.

Reinstatement

A student who is dismissed because of unsatisfactory academic standing may enroll for the summer quarter or in the third quarter following dismissal. If the third quarter is the fall quarter, the enrollment must be approved by the office of the student's college. The student needs to have a total quality point deficiency of not more than 15 points as a freshman or sophomore or not more than 10 points as a junior or senior at the end of the quarter to qualify for reinstatement. (See Grade Point Average, page 9.)

If the enrollment capacity of the University for the next quarter, as determined by University officials, has already been reached when the student becomes eligible for reinstatement, readmission may be allowed in a later quarter.

A student who does not qualify for reinstatement at the end of the quarter but who has reduced the quality point deficiency by as many as four points may enroll for the next quarter providing appropriate class and housing space is available.

The student who is academically dismissed may not qualify for reinstatement through attendance at another college or university. Advanced standing credit is granted for courses completed at another institution during a student's period of suspension from Bowling Green only upon acquisition of a 2.0 accumulative grade point average at Bowling Green.

ADVANCED PLACEMENT

Advanced placement may be achieved in six ways:

1. Appropriate achievement on Bowling Green placement tests; leads to exemption from courses but *not* credit.
2. Passing an examination administered by an academic department of the University; see Credit by Exam.
3. Completing a college-level course in high school and earning a prescribed grade in an advanced placement examination administered by the College Entrance Examination Board (CEEB). This leads to college course credit. (For more information, contact University Division of General Studies on the main campus, or the Office of Student Services at Firelands.)
4. Appropriate scores on the general examinations of the College Level Examination Program (CLEP). This leads to college course credit. See University Division, page 53.
5. Passing a higher level course in a sequence with a grade of "C" or above and thereby earning credit for lower level sequence courses in prescribed departments.
6. Appropriate achievement during the freshman year and on a set of examinations at the end of the freshman year administered through the Time-Flexible Degree Program. See University Division, page 53.

CREDIT BY EXAM

An undergraduate student currently registered for a minimum of three quarter hours may obtain permission from the dean of his or her college to apply for credit by exam. Approval is generally given when it is clearly evident that previous study or experience warrants such an option. Once approved, the exam must be completed within 10 weeks of the date of approval. Policies, fees, and procedures should be obtained from the student's college office.

A student may also take a validation exam to receive credit for prior course work at another institution in which the final grades were equivalent to "C" or better but which did not transfer because of BGSU policies. No fee is charged for this exam.

A student in the School of Nursing may take the National League for Nursing exam to validate course work taken before entrance into BGSU's Bachelor of Science in Nursing degree program.

SPECIAL ACADEMIC OPTIONS

STUDY ABROAD

BGSU offers many opportunities for students to participate in education programs in other countries. Some programs are offered for the entire academic year while others are for one quarter. Students may also arrange for study abroad on an individual basis by contacting the Office of International Student Programs, 16 Williams Hall, 372-2247, or the University Division of General Studies, 231 Administration Building, 372-0202.

ASIA—Korea, Japan

Through the Asian studies program, students may have the opportunity to study in either Korea or Japan. This program is conducted on an exchange basis, with equal numbers of students exchanged between the participating universities. BGSU has an exchange arrangement with Yonsei University in Korea and Nanzan University in Japan. Tuition is waived for both the Asian and American students. Students bear the cost of airfare, room, and board, and live with a family in the host country for a total cultural immersion experience. All academic credits earned at the host institution are transferable to Bowling Green.

AUSTRIA—Salzburg

The Department of German and Russian conducts an academic year abroad program in Salzburg, Austria. The program consists of two semesters (three quarters) of academic study in a German-speaking country with an excellent cultural environment. All academic work is done in German. The curriculum includes courses in German language and literature, as well as the arts and the social sciences. Qualified music students may also take courses at the Mozarteum. An American program director resides in Salzburg, but teaching staff is drawn from the faculty of the University of Salzburg. Students live with Austrian students in a dormitory.

The program generally runs from October 1 through June 30. Applications are accepted starting in January of every academic year. Applicants must have the equivalent of two years of college German prior to leaving for the year abroad. Students must also have a minimum accumulative grade point average of 2.25 in all academic work, with a 2.5 minimum GPA in German courses. A similar program is offered during the summer quarter. For more information, call 372-2268.

FRANCE—Tours

Tours, situated in the "garden of France," is the site of BGSU's academic year in France, conducted by the Department of Romance Languages. All courses are conducted in French and include work in French language and literature, as well as the arts and social sciences. Students live with carefully chosen French families. A BGSU faculty member supervises the program, but the teaching staff is drawn from the University of Tours and the Institut d'Etudes Francaises de Touraine.

The program is open to any student having completed FREN 202, regardless of the major area of study. A student must have a minimum 2.25 accumulative grade point average, with a 2.5 average in French courses. For more information, call 372-0278.

FRANCE—Nantes

The College of Business Administration offers an opportunity to enroll in a five-week summer session at l'Ecole Supérieure de Commerce et d'Administration des Entreprises, a business school in Nantes, France. All students are eligible, although preference is granted to juniors and seniors. Courses are taught in English and carry nine hours credit. Knowledge of French is not required. However, special language courses are offered in the spring quarter and at the French school for those who wish to improve their language skill. The course of study includes the common market, the European financial environment and business, labor and social relationships in selected countries.

GERMANY

In cooperation with the Federation of German American Clubs (West Germany), BGSU maintains a direct student exchange with German universities. This program brings two German students to BGSU each year, in exchange for two BGSU students going abroad to one of 13 cooperating German universities. BGSU students must have approximately a 3.00 grade point average and fluency in German. Preference is given to students entering their junior year. The program is open to all qualified students, regardless of major area of study. For information, call 372-2247.

SPAIN—Madrid

The Department of Romance Languages conducts a year-round study program in Madrid, Spain. The curriculum for the four-quarter program includes course work in the Spanish language and literature, as well as in the arts, history, and geography of Spain. All courses are taught in Spanish and are approved by the respective departments at BGSU. The teaching faculty is drawn from the staff of Spanish institutions of higher learning. An American program director resides in Madrid and supervises the academic program. The program is open to any qualified student regardless of major area of study.

The department also offers a graduate summer study program for students enrolled in the M.A. degree program in Spanish. For more information, call 372-0053.

STUDENT TEACHING ABROAD

Qualified students may elect to student teach abroad. Available locations include: Campinas, Brazil; Bogota, Colombia; and Montreal, Quebec, Canada. For more information, call 372-0151, ext. 210.

UNIVERSITY DIVISION OF GENERAL STUDIES

The University Division of General Studies is a resource center for several academic options. The time-flexible degree program, honors program, and cluster colleges are coordinated through University Division. Independent study experiences may also be designed with assistance from the University Division. For more information, see page 53.

UNIVERSITY HONORS PROGRAM

The Honors Program is designed to provide more scholarly, yet personalized, strategies for satisfying general education requirements in the various BGSU colleges. The program offers intellectually challenging experiences in general education through small discussion groups, guest speakers, independent projects, and travel-study seminars. The Honors Program also provides recognition for outstanding performance and opportunities for interaction with students of similar ability and motivation. This program is open to qualified incoming students and to other undergraduates who are concerned about the quality of their general education as well as their field of specialization. Students who complete honors courses will have this reflected on their transcripts, and those who successfully complete at least six honors courses will be named University Honors Students. For more information, contact the Honors Program Office, 231 Administration Building, 372-0202.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program offers graduate and undergraduate students an opportunity to integrate classroom theory with practical, on-the-job realities through a planned series of alternating work assignments with employers in business, industry, government and the nonprofit sector. Employers assign students work which is relevant to each student's academic degree program or career interests, provide on-the-job supervision, evaluate the student's performance on a regular basis, and pay each student a fair wage. Each co-op assignment is carefully monitored by the University and is considered an integral component of the student's total educational/learning experience.



The program is optional and open to any student, within any academic discipline on campus, who chooses to participate. Adviser approval is required. Academic credit may be awarded for the off-campus work experiences, subject to departmental approval. Interested students should contact the Office of Cooperative Education, 220 Administration Building, (419) 372-2451, for information.

EVENING CREDIT PROGRAM

The Evening Credit Program offers a wide variety of undergraduate and graduate courses for students who attend the University after 5 p.m. The student may take courses to update skills, to explore a new career, or to work toward a degree. A student may begin University studies as an unclassified student while determining academic interests and possibilities. An unclassified student may accumulate up to 24 hours of credit before being admitted to the University and declaring a major. For information about the degree programs available in the evening, contact the Office of Continuing Education, Regional and Summer Programs, 300 McFall Center.

The Evening Credit Program also offers special services to the student on campus during the evening. Course offerings are advertised each quarter and a special evening registration is held approximately four weeks before classes begin. Program advising is available during evening registration, or by appointment through the Office of Continuing Education, Regional and Summer Programs, 372-0181, or at the Center for Continued Learning, 194 South Main Street, 372-0363. The evening student can obtain necessary forms and parking stickers, register for courses, drop or add courses, and obtain general information about University procedures and programs. The Office of Continuing Education, Regional and Summer Programs is

open from 8 a.m. to 7:30 p.m., Monday through Thursday, and from 8 a.m. to 5 p.m. on Friday.

SENIOR ADULTS GRANTS PROGRAM

The Senior Adult Grants for Education (SAGE) program is an opportunity for all Ohio residents age 60 and over to enroll in courses at BGSU without payment of instructional or general fees. To be eligible, persons must have lived in Ohio for at least one year prior to enrollment. Participants have access to all University classes, including workshops, in which there is space available.

ROTC (Reserve Officers Training Corps)

A qualified student may earn a commission as a second lieutenant while studying for a college degree by enrolling in either the Army or Air Force Reserve Officers Training Corps (ROTC). Two-year and four-year programs are offered, each providing uniforms, books, and a monetary stipend.

Enrollment in ROTC is elective, but while enrolled the student must remain a full-time student studying toward a degree. While taking the basic course, the student may withdraw from ROTC and receive academic credit for that portion already successfully completed. A former serviceman or servicewoman may apply for entry directly into the two-year advanced program. A student attending a nearby college or university which does not have an ROTC unit may enroll in the ROTC program at BGSU if the officials of both institutions and the military department concur.

The student who successfully completes the ROTC program and graduates from the University is commissioned as a second lieutenant. For more details about scholarships, financial aid, field training, required courses, and other information, contact Air Force ROTC at 372-2176 or Army ROTC at 372-2476.

ADMISSIONS

FRESHMEN

For admission to Bowling Green State University a freshman applicant must: 1. be a graduate of a senior high school approved or accredited by the department of education of the state in which it is located; or 2. have earned high school equivalency through the General Educational Development (GED) testing program (issued by the state Department of Education). A transfer applicant should refer to transfer admissions in this section of the catalog.

All non-native speakers of English are required to take the TOEFL test, or if unavailable, the Michigan Test. This requirement pertains to foreign students issued immigrant visas, to those transferring from another American college or university, to those (with English as a foreign language) coming from U.S. territories (e.g., Puerto Rico), and to those granted U.S. citizenship within recent years.

Applications for admission are accepted and processed for each quarter of the academic year until the capacity of the freshman class is reached on the Bowling Green campus, and at the Firelands College campus, Huron, Ohio. A high school student is encouraged to apply for admission beginning October 1 of the senior year. Since housing accommodations and classroom facilities are limited, students are encouraged to submit their applications as soon after receiving them as possible. During the past several years admission to the Bowling Green campus has been closed for freshmen several months prior to the beginning of each quarter. Although the largest number of new students enters in September, the University provides the opportunity to enter in the winter, spring, and summer quarters. Applications must be submitted 30 days prior to the beginning of each quarter in order to allow a sufficient time for processing, notification, academic advising, and registration for classes.

An application for admission may be obtained by writing to the Director of Admissions, Bowling Green State University, Bowling Green, Ohio 43403. The completed application must be submitted with a nonrefundable \$25 application fee. The completed application, housing card, and application fee should be taken to a guidance counselor for one transcript of the high school record (at least six semesters) to be attached and then mailed to the Office of Admissions. If the freshman applicant has met high school equivalency by completing the GED, both a transcript of the high school record and official results of the GED must be submitted.

Applicants who are unable to follow the above procedure should send the completed application, housing card, and application fee to the Office of Admissions directly. A form for the high school transcript will be sent to the student when a completed application is received. This transcript form should be given to the high school counselor or principal to be completed.

Freshman applicants are required to submit results of either the American College Test (ACT) or the Scholastic Aptitude Test (SAT) unless the applicant has graduated from high school three or more years before the intended date of enrollment in Bowling Green State University.

As a condition of admission to the University and reflecting the educational philosophy of the institution, all freshman- and sophomore-level students are required to live in University residence halls except for students commuting daily from the home of parents, legal guardian, or spouse (commuters must live within 50 miles of Bowling Green), or unless they have attained 90 academic quarter hours and/or six quarters of campus residency on or before their first day of classes. See Housing, page 20.

For residency requirements for Ohio residents and nonresidents, refer to residency regulations under Fees and Charges, page 17.

Recommended high school subjects

Prospective students are strongly encouraged to complete the following minimum distribution of high school credits:



four units of English, three units of college preparatory mathematics (for students planning to pursue a bachelor's degree program in business, four units of mathematics with at least two units of algebra are recommended), two units of social sciences, two units of science (one in a laboratory science), six units of electives. At least two units of a foreign language should be included by the student who plans to pursue a degree program in the College of Arts and Sciences.

Correspondence pertaining to the admission of an undergraduate student to Bowling Green should be addressed to the director of admissions. A student interested in graduate study should address correspondence to the dean of the Graduate College, and those interested in music to the dean of the College of Musical Arts.

TRANSFER STUDENTS

A transfer student who wishes to enroll at the University as an undergraduate uses the regular application for admission form. The application for admission must be accompanied by a nonrefundable \$25 application fee. The University requires a transcript of the applicant's high school studies from the principal or guidance counselor of the high school from which the student graduated, except in the case of a transfer student who has earned a baccalaureate degree from an accredited college or university. Transfer students are not required to submit American College Test (ACT) results.

An official transcript of credit is required from each college or university the student has attended. This transcript must be mailed to the director of admissions by the institution and is not accepted from the student. In addition, a transfer recommendation card must be completed by the personnel dean of the last institution attended and sent directly to the director of standards and procedures at Bowling Green State University. This card must be on file before formal admission can be granted.

A student who has attended another accredited college or university and is in good standing is considered for admission:

1. If the student has earned an associate degree or at least 90 quarter hours with an accumulative grade point average equivalent to a 2.0 in a 4.0 system;

2. If the student has earned less than 90 quarter hours with an accumulative grade point average equivalent to a 2.5 in a 4.0 system.

A student whose accumulative grade point average is between 2.0 and 2.5 may be considered for admission upon petition. After the initial evaluation of the student's completed admission credentials, the Office of Admissions will send a petition form to the student. Upon return of this form, an admission decision concerning a student in the petition range (2.0-2.5) is made by the dean of the college to which the student is applying in consultation with the director of admissions.

A student who cannot meet the above transfer admission policies and who has not attended another college or university for a period of one or more years may be considered for probationary admission by petitioning the director of admissions.

A person who is awarded probationary admission needs to reduce his or her quality point deficiency by as many as four points in order to continue the following quarter. (See Grade Point Average, page 9.) If academic and residence hall accommodations are not available, probationary admission

may be available to the main campus for the summer quarter only. Generally, probationary admission to the Firelands College is available for all quarters of the academic year.

BGSU's School of Technology offers two upper division (junior/senior) programs designed specifically for transfer students. A transfer student who has received an associate degree with a technical specialization may apply for admission to one of these programs. The associate degree must have been awarded by an institution accredited either regionally or by the Ohio Board of Regents. The student must apply for admission to the University and request acceptance of the associate degree. For more information on these technical programs, see page 93.

Some upper division (junior/senior) majors have additional transfer requirements. Transfer students should refer to the bulletin description of their intended major program for additional requirements.

Transfer of credit

Credit earned at regionally accredited institutions or at publicly sponsored Ohio two-year institutions of higher education will be considered for transfer providing a grade equivalent to "C" or better was earned and a parallel course is offered by Bowling Green State University. (Note: Grades from transferred courses are not included in the accumulative grade point average or shown in the permanent record. However, they are included in calculating graduation with honors. See Academic Honors.)

An associate degree holder is accorded junior standing but the applicability of the transferred credit is dependent upon its relevance to the baccalaureate program pursued. A maximum of 96 quarter hours of credit may be transferred from a two-year institution or from all institutions attended up to the awarding of the associate degree.

Entering transfer students should submit an official transcript of credits from previous institutions attended to the Office of Admissions. Students currently enrolled at Bowling Green State University taking course work at



another institution should submit a transcript of this work to the Office of Registration and Records. A course-by-course evaluation is made by the Office of Registration and Records, and copies are mailed to the student and the appropriate college advising office. Associate degree holders will receive their copies of credit evaluations from the college advising office at the time of their registration appointments.

OTHER ADMISSION CATEGORIES

Special students

A student aged 21 or over who has not attended another college or university and who cannot meet the specified entrance requirements, including the high school graduation requirements, may be admitted as a special student for one year upon presenting evidence of the capacity to do satisfactory work in the University. In order to continue the student must:

1. secure credit for 15 acceptable units of high school work; or
2. remove by examination deficiencies in entrance units; or
3. earn such additional college credits beyond the number required for a degree as may be determined by the dean of his or her college.

Foreign students

Students from more than 50 foreign countries are enrolled at the University. Well qualified foreign students are welcomed. Their participation is eagerly sought to enrich educational opportunities for all students. Students from outside the United States interested in applying for admission as foreign students should write the Office of International Student Programs, Bowling Green State University, Bowling Green, Ohio 43403.

For admission purposes, applicants whose native language is not English are required to take an English proficiency test. The Test of English as a Foreign Language (TOEFL) is preferred. If opportunities for taking the TOEFL are not available, the University will accept results of the English Language Proficiency Test offered by the University of Michigan. Additionally, graduate applicants are required to take the Graduate Record Examination (GRE), both aptitude and advanced. Appointments to take both the TOEFL and the GRE must be arranged by the applicant in direct communication with the Educational Testing Service, Box 899, Princeton, New Jersey 08540.

Evening and part-time students

Prospective students who plan to take evening classes only (after 5:30 p.m.) can apply for admission to the Evening Program or enroll as unclassified undergraduate students (see this page) before seeking admission to the University.

Concurrent enrollment

Concurrent enrollment at Bowling Green State University and the University of Toledo allows a student in good standing to take courses at both universities and receive credit toward a degree.

Under this policy, the university that has most recently granted formal admission to the student is designated as the "home" university. The other university is the "host" institution.

A student registering for 12 hours or more of course work, at least eight of which are at the home university, shall pay all fees to the home university. If a student registers for less than 12 hours, instructional, general, and nonresident fees are to be paid at the separate universities. (Special course fees are payable to the "teaching" institution.)

All course work taken under concurrent registration will be registered at the home university and will be considered by that university as resident credit. It will be included in the calculation of a student's grade point average.

Course work completed at the University of Toledo may not be used to delete "F's" and other low grades previously earned at Bowling Green State University in grade point average computation.

Concurrent enrollment forms are available through the Office of Registration and Records of either institution.

Unclassified degree holder

A student who has an earned degree in higher education and who wishes to enroll in undergraduate courses without pursuing another degree is classified as an unclassified degree holder. *An unclassified degree holder is required to apply for admission each quarter.* The only admission requirements for this type of student is official confirmation from the appropriate institution of the highest degree received.

Unclassified undergraduate student

A student who has not attended another college or university and who is not a candidate for a degree may be considered for enrollment as an unclassified undergraduate student. Unclassified students will register at a time announced by the Office of Registration and Records (approximately two weeks prior to the beginning of any quarter). *An unclassified student must apply for admission each quarter.* Courses are offered on a space available basis after advanced registration has been completed. An unclassified undergraduate student is limited to 24 credit hours of work completed before applying for formal admission to the University. An unclassified student is not required to submit a high school transcript (although he or she must be a high school graduate) or American College Test results.

Readmission of former students

A student who has not been in continuous attendance during the regular academic year (excluding summer quarter) must complete the application for readmission form and submit it to the Office of Registration and Records. A copy of this form may be obtained by writing to the registrar. The readmission of a former student is based on past academic and personal records at the University and by the availability of facilities. A former student who has transferred to another college or university since the last enrollment at Bowling Green State University may be considered for readmission and must submit the application for readmission form and a complete transcript of his or her scholastic record and evidence of good standing, both personal and academic, at the institution last attended. A 2.0 accumulative grade point average (on a 4.0 system) is required.

Transient students

A student of another college or university who wishes to earn credits at Bowling Green State University may be enrolled as a transient student. The student must present an official statement, from the institution he or she has been attending, which certifies eligibility to enroll at the "home" institution and that the credits earned at Bowling Green are acceptable as part of the program there.

The above principle applies to a student of Bowling Green attending another college or university as a transient student. Transient permission to attend other universities is granted only to students who have at least a 2.00 accumulative grade point average at BGSU. Grades earned as a transient student at another college or university do not become part of the student's record at BGSU, but they are included in calculating all honors.

Transient students will register at a time announced by the Office of Registration and Records (approximately two weeks prior to the beginning of any quarter). *A transient student must apply for admission each quarter.* Courses are offered on a space available basis after advanced registration has been completed. A transient student is limited to 24 credit hours of work completed before applying for formal admission to the University. Transient students are not required to file a transcript of previous college credit.

REGISTRATION AND RECORDS

The Office of Registration and Records, 110 Administration Building, is responsible for each student's class registration and academic record. In addition, the schedule of classes is compiled by this office with the assistance of academic departments and colleges. The office is also responsible for commencement programs and receives applications for graduation. Other services provided are the evaluation of transfer credit, issuance of student identification cards, certification for benefits under the Veteran's Education and Social Security Acts, issuance of student transcripts, readmission of former students, admission of unclassified and transient students, certification for eligibility in athletics, membership in honor societies, clarification of residency, processing of credit-by-exams, and various other student-related functions.

IDENTIFICATION CARD

Identification cards are provided to all fully admitted undergraduate students. Unclassified and transient students are not issued student identification cards except on request. Identification cards may be replaced if lost. A \$2 service charge is assessed. Spouse identification cards for husbands and wives of students give the spouse library and theatre privileges and are available for a \$10 service charge.

If the information on the identification card is not correct, the student should contact the Office of Registration and Records since the card is used for various identification purposes. Any cracked or unusable card may be returned to the office for replacement at no charge.

The student identification card is good only when accompanied by a *validation card* provided by the University bursar upon full payment of quarterly fees and expenses. The validation card certifies both full payment and official registration. See Payment of Fees under Fees and Charges, page 19.

SOCIAL SECURITY NUMBER

The social security account number (SSAN) verifies the identity of the student and is used as an identifying account number throughout his or her attendance at the University in order to record necessary data accurately. As an identifier, the SSAN is used to facilitate record keeping of the student's academic standing, housing contracts, payment of fees, and financial aid.

The student is required to disclose his or her social security account number as a condition for enrollment in the University. The University would encounter practical administrative difficulties in maintaining adequate records without the continued use of the student's social security number.

TRANSCRIPTS OF CREDIT

An official transcript of a student's record is issued only for transferring credits to other colleges and universities and for the information of certifying agencies and employers. An official transcript is issued *only at the written request* of the student. A charge of \$2 is made for each transcript and should be included with the request. A transcript is not released for a student who is delinquent on any financial obligation to the University. Requests should be submitted at least 24 hours in advance to the Office of Registration and Records, 110 Administration Building (104 East Building at Firelands).

Transcripts from other institutions which have been presented for admission or evaluation become a part of the student's permanent academic file and are not returned nor copied for distribution. Students desiring transcripts covering work completed elsewhere should request them from the institutions concerned.

ACADEMIC LOAD

A full-time student normally should be registered for 15 to 16 hours per quarter. The academic load of a regular undergraduate student should not be less than 12 hours at any time nor more than 18 hours without contacting an academic adviser in the college in which the student is enrolled. A full-time undergraduate is defined as a student registered for 12 quarter hours.

REGISTRATION SCHEDULE

Since late entrance is a handicap to academic achievement, every student is expected to register for classes during the time announced for registration. Continuing students receive registration materials in the mail during the fourth week of the preceding quarter. The registration requests are received at the Office of Registration and Records during the fifth week, and students are notified of their schedules by the eighth week of the preceding quarter. (This does not apply to Firelands students.)

Anyone who fails to take advantage of the advance registration system is allowed to register up until the first day of classes without being charged a late fee. Any student going through this open registration, however, is limited to requesting only those classes which still have spaces available.

No student entering after the end of the first week of a quarter is permitted to carry a full program of courses without the permission of the dean of the college in which the student is enrolled.

Drop/add

After the registration period has been completed, all changes must be processed at the Office of Registration and Records in accordance with the policy of the college in which the student is enrolled. An undergraduate may enroll in a course within seven calendar days from the beginning of classes in any quarter. After this time, a student may add a course only with permission of the dean of his or her college.

Fourteen calendar days are allowed for a student to withdraw from a class at the Office of Registration and Records. The student may change the grading option (graded or S/U) for a specific course through 21 calendar days of a given quarter. After these dates, exceptions may be granted only by the dean of the student's college.

An undergraduate who drops a course during the third through the sixth week of a quarter receives a grade of "WP" (withdrawn passing) or "WF" (withdrawn failing) according to his or her standing in the course. A grade of "WF" is assigned to courses dropped after the sixth week of a quarter and to courses which the student ceases to attend without permission. Any student terminating attendance in an S/U course without officially dropping the course or withdrawing from the University will receive a "WF."

See late registration charge under Fees and Charges, page 18.

See change of registration charge under Fees and Charges, page 18.

AUDIT

A student who wishes to attend a class without receiving credit for it may register to audit that course. A per-hour instruction fee is charged as if the student had registered for the course for credit. Audit (no credit) registration must be indicated for the appropriate course(s) before the first day of classes. A student may not change from audit to credit registration, and vice versa, during the given quarter.

FEES AND CHARGES

MAIN CAMPUS

State appropriations currently provide approximately 48 percent of the cost of instruction. The remainder is financed by student fees and other charges and contributions. The General Assembly appropriates no funds for meals and rooms or for various student services and activities provided by the University. Such services and activities are financed from student fees and charges.

A student who is an Ohio resident and is enrolled for 11 or more credit hours pays the following in fees:

Instructional Fee	\$306/quarter
General Fee	\$96/quarter
Total	\$402/quarter

A student who is an Ohio resident and registered for 10 credit hours or less pays \$40.50/credit hour.

A student classified as a nonresident who is enrolled for 11 or more credit hours pays the following in fees:

Instructional Fee	\$306/quarter
General Fee	\$96/quarter
Nonresident Fee	\$509/quarter
Total	\$911/quarter

A nonresident enrolled for 10 credit hours or less pays a fee of \$50/hour in addition to the \$40.50/hour credit fee for a total of \$90.50 per credit hour.

If a student drops a course which reduces the fee status from full-time to part-time, the hourly rate schedule will be applicable to the remaining hours.

The instructional fee, supplemented with state appropriations, finances the instructional programs of the University. The general fee finances the many student services and activities offered on campus.

A previously enrolled student may be denied readmission after payment of fees for several reasons, one of which is failure to maintain a satisfactory academic standing. In such cases a full refund is made of all fees paid.

The Board of Trustees reserves the right to make any changes or adjustments in fees or charges when such changes are deemed necessary.

See Housing, page 20 for room and meal plan charges.

FIRELANDS

The Ohio student who attends the University's Firelands College and is enrolled for 11 or more credit hours pays the following in fees:

Instructional Fee	\$306/quarter
General Fee	\$34/quarter
Total	\$340/quarter

The Ohio student who attends the Firelands College and is enrolled for 10 credit hours or less pays a fee of \$34/credit hour.

A nonresident student attending the Firelands College and enrolled for 11 or more credit hours pays the following:

Instructional Fee	\$306/quarter
General Fee	\$34/quarter
Nonresident Fee	\$509/quarter
Total	\$809/quarter

A nonresident student attending Firelands and enrolled for 10 credit hours or less pays a nonresident fee of \$50/credit hour in addition to the \$34/hour credit fee.

During any quarter when a student is registered for a combination of main campus (including extension) and branch or resident credit center courses, fees are determined as follows: if the number of main campus (including extension) credit hours equals or exceeds the off-campus credits, the main campus fees are charged for all courses. Off-campus rates apply when branch and resident credit center credit hours exceed the main campus credits.

NONRESIDENT FEE REGULATIONS

A student classified as a nonresident of Ohio for fee purposes who is entering or reentering the University is assessed a nonresident fee of \$50/quarter hour up to a maximum of \$509, in addition to the instructional and general fees.

The responsibility of indicating proper residence at the time of registration is placed upon the student. If there is any question on the part of the student regarding his or her state of residence, the student should bring the case to the attention of the Office of Registration and Records, 110 Administration Building, which may refer the matter to the Residence Status Review Committee for official action. Any student who registers improperly with respect to his or her legal residence under the rules identified below shall be required to pay all applicable nonresident fees. A student who fails to pay this fee within 30 days after having been notified of the assessment may have his or her registration in the University automatically nullified.

The University reserves the right to make a final decision in any case of disputed residence for the student as a condition of his or her admission. In determining the student's proper residence, University officials use the following regulations as approved by the Ohio Board of Regents December 20, 1977.

C. General residency

The following persons shall be classified as residents of the State of Ohio for subsidy purposes:

1. Dependent students, at least one of whose parents or legal guardian has been a resident of the State of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.

2. Persons who have resided in Ohio for all other legal purposes for at least 12 consecutive months immediately preceding their enrollment in an institution of higher education and who are not receiving, and have not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.

3. Persons who reside and are gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who are pursuing a part-time program of instruction at an institution of higher education.

4. Persons who have been reclassified as residents under provisions of Section D7 of this rule.

D. Specific exceptions and circumstances

1. A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.

2. A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.

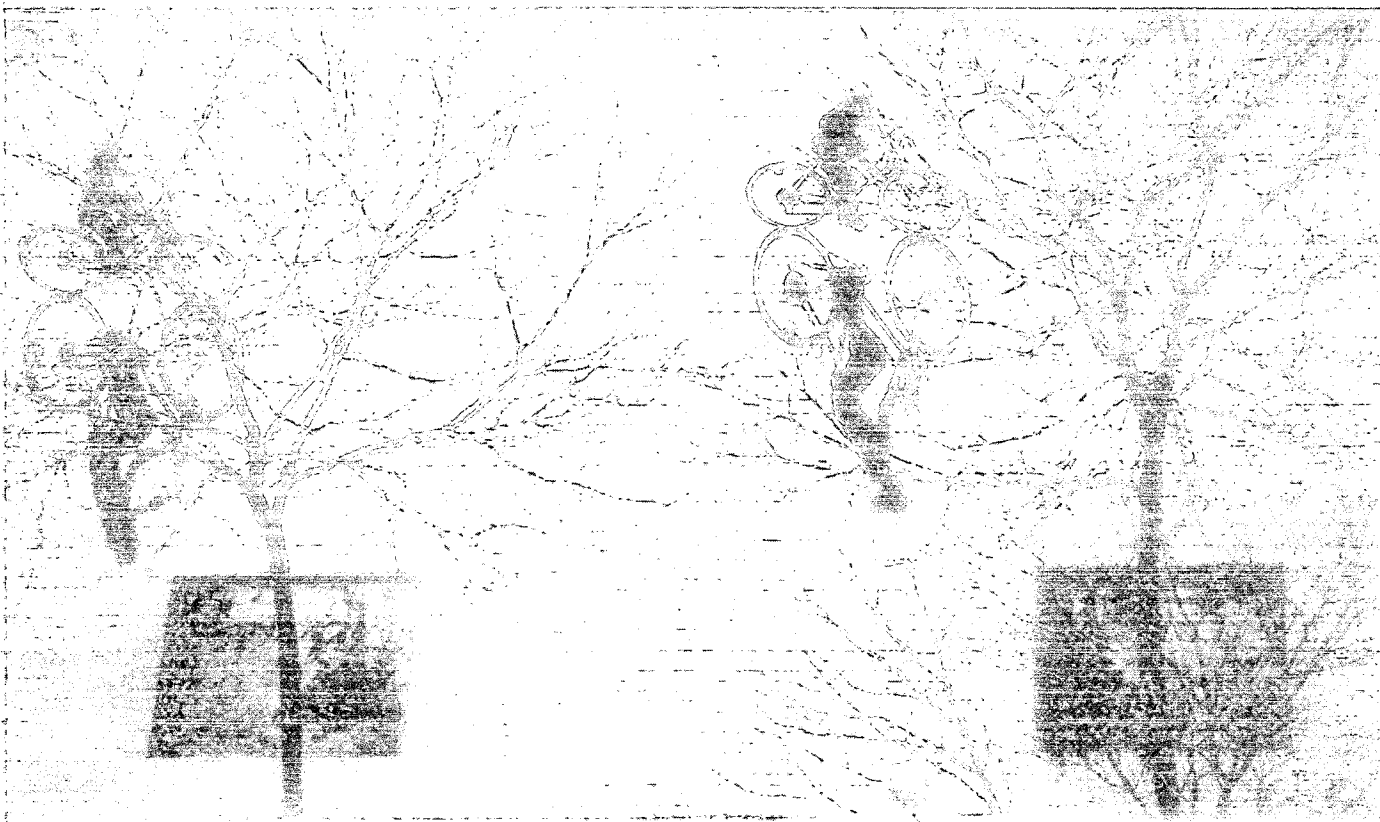
3. Any alien holding an immigration visa shall be considered a resident of the State of Ohio for state subsidy and tuition surcharge purposes in the same manner as any other student.

4. No person holding a student or other temporary visa shall be eligible for Ohio residency for these purposes.

5. A dependent person classified as a resident of Ohio who is enrolled in an institution of higher education when his or her parents or legal guardian remove their residency from the State of Ohio shall be considered a resident of Ohio for these purposes during continuous full-time enrollment and until his or her completion of any one academic degree program.

6. In determining residency of a dependent student, removal of the student's parents or legal guardian from Ohio shall not, during a period of 12 months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph C1 of this rule.

7. Any person once classified as a nonresident, upon the completion of 12 consecutive months of residency in Ohio for all other legal purposes, may apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes. Should such person present clear and convincing proof that no part of his or her financial support is, or in the



preceding 12 consecutive months has been, provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident. Evidentiary determinations under this Rule shall be made by the institution which may require, among other things, the submission of information regarding the sources of a student's actual financial support to that end.

8. Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification.

9. A person who is transferred by an employer beyond the territorial limits of the 50 states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.

10. A person who has been employed as a migrant worker in the state of Ohio and his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

Definitions

For the purposes of this Rule:

1. A resident of Ohio "for all other legal purposes" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the Revised Code; provided such person has not, within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.

2. "Financial support" as used in this rule, shall not include grants, scholarships and awards from persons or entities which are not related to the recipient.

3. An "institution of higher education" as used in this rule shall mean any university, community college, technical institution or college, general and technical college, medical college or private medical or dental college which receives a direct subsidy from the State of Ohio.

SUMMER SCHOOL FEES

A student who is a resident of Ohio and who is enrolled for 11 or more credit hours for the full summer quarter pays the following:

Instructional Fee	\$306
General Fee	\$8
Total	\$400

A student who is a resident of Ohio and who registers for 10 credit hours or less pays \$40/credit hour.

A nonresident student who is enrolled for 11 or more credit hours pays the following:

Instructional Fee	\$306
General Fee	\$8
Nonresident Fee	\$509
Total	\$909

A nonresident of Ohio enrolled for 10 credit hours or less pays a nonresident fee of \$50/credit hour in addition to the \$40/hour credit fee for a total of \$90/credit hour.

GRADUATE FEES

For complete information regarding graduate fees consult the *Graduate Bulletin*.

OTHER FEES, CHARGES, AND DEPOSITS

An application fee of \$25 must be paid at the time the application for admission is submitted by a new undergraduate student. This fee is nonrefundable.

A change of registration charge of \$3 is made for any change in registration made on or after the first day of classes at the Office of Registration and Records unless the charge is waived by the dean of the college in which the student is enrolled.

A late payment charge of \$5 is made for each day including Saturdays and Sundays that a student is late in paying fees at the opening of a quarter or summer term.

An automobile registration charge of \$20 a year (September 1 through August 31) is required of each student who registers an automobile with the Parking Services Office. Each automobile on campus must be registered and its decal displayed in accordance with instructions. Firelands students are required to register their automobiles at Firelands where the registration charge is \$5 per year.

A **credit by examination charge** of \$15 is assessed for each special examination.

A **proficiency examination charge** of \$5 is made for special examinations in typing and shorthand which are administered by members of the business education staff for a person seeking to qualify for civil service or other positions.

A **transcript charge** of \$2 is made for each transcript of credits.

A **student teaching laboratory fee** of \$36 is required during the quarter in which student teaching is done.

Any student may register for **audit credit** (no credit) in any course offered in the current schedule of classes. Fees for audit hours will be charged at the rate of the already established University fee structure equivalent to the regular credit hours of registration.

An **excess credit fee** of \$15 is charged beginning with the 19th credit hour taken each quarter and continuing for every hour thereafter.

Special **music fees** will be charged those participating in the following courses:

Applied music private lessons	\$30/credit hour
Applied music classes	\$15/credit hour
Music major equipment fee	\$10/quarter
MUED 402	\$15/course
Tools for piano tuning	variable

A student enrolled for applied music has access to practice rooms and equipment without charge (other than above) in accordance with the schedule and regulations determined by the College of Musical Arts.

A **physical education fee** is charged those participating in the following courses at the rates indicated:

Billiards	\$7.50	Ice skating, curling, hockey	\$10
Bowling	\$12.50	Scuba diving	\$10
Driver education	\$15	Beginning skiing	\$50
Beginning golf	\$5	Advanced skiing	\$78
Intermediate golf	\$10	Horsemanship (western)	\$100
Advanced golf	\$20	Horsemanship (English)	\$100

The student is held responsible for apparatus lost or damaged and for materials wasted in laboratory classes. The student pays for all materials used in making articles or items that become personal property.

The Board of Trustees reserves the right to make any changes or adjustments in fees or charges when such changes are deemed necessary.

PAYMENT OF FEES

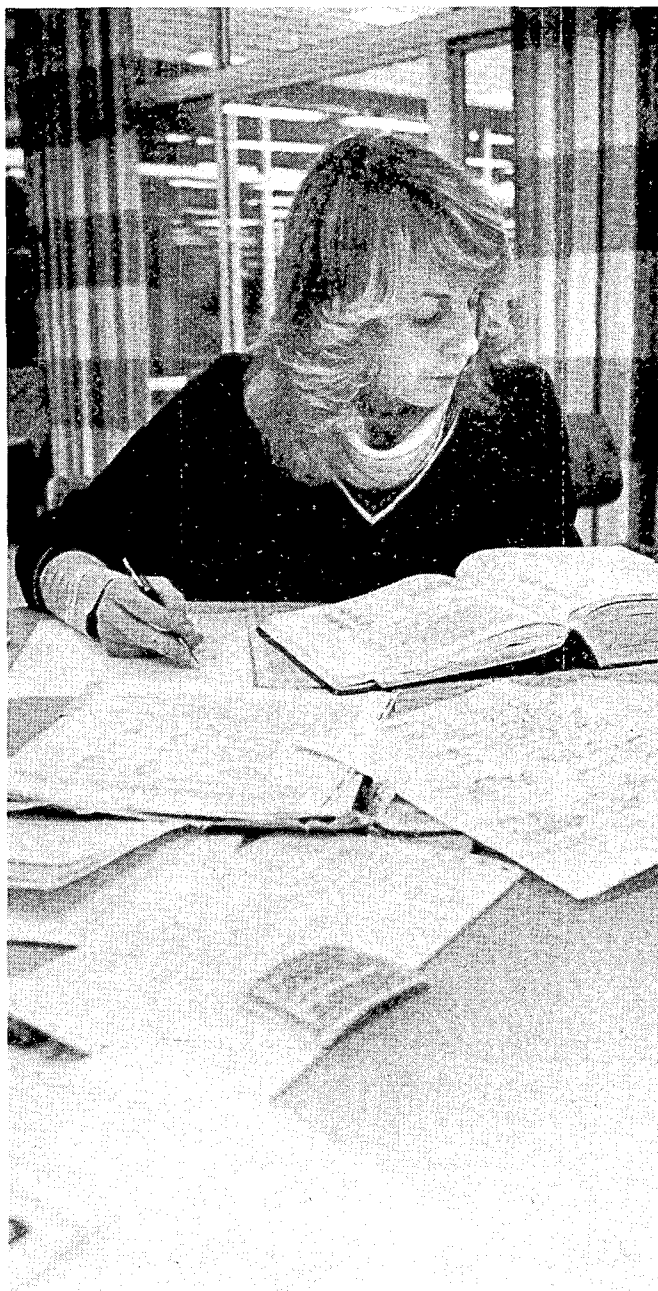
All fees and charges are payable in advance of the quarter for which the student is enrolled. The final date for payment of fees for each quarter is the last weekday before the official date for the beginning of the quarter. A student paying fees after the last day designated for this purpose at the opening of a quarter (including summer) is assessed a *late payment fee* of \$5 for each late day including Saturdays and Sundays to a maximum of \$25.

Fees are payable at the Bursar's Office on the first floor of the Administration Building between 8 a.m. and 5 p.m. Checks and money orders are accepted if they are made payable to Bowling Green State University for the exact amount required for the payment of all fees. At Firelands, fees are payable at the Office of Registration.

For a student desiring to use a credit card system, the Master Charge plan is honored by the University.

REFUND OF FEES

In the case of voluntary withdrawal of a student from the University in any quarter, fees, except for the application fee, are refunded on the following basis: during the calendar week in which classes begin, 90 percent; during the second calendar week, 80 percent; during the third calendar week, 60 percent; during the fourth calendar week, 40 percent; after the fourth week, no refund. A student withdrawing under discipline forfeits all rights to the return of any portion of fees. However, in the event of academic dismissal, all monies prepaid for a quarter are refunded in full. This schedule



pertains to instructional, general, and nonresident fees (where applicable); a separate refund schedule for room and meal plan charges is outlined in the housing contract-acceptance agreement. No deduction is granted because of late entrance.

If a student drops a course which reduces the fee status from full-time to part-time, the hourly rate schedule will be applicable to the remaining courses. Any refund is subject to the percentage refund schedule.

In a change of program involving the dropping of a course in which a special course fee has been paid, the fee is refunded in accordance with the schedule given in the preceding paragraph unless the dean of the college in which the student is enrolled authorizes different action. Refunds normally take approximately four weeks to be processed.

CHARGE CARDS

Personal charges at the University can be paid not only by check or cash but also by Master Charge. Due to a significant cost increase in processing BankAmericard/Visa, the University is no longer able to accept payments in this way. Any questions should be directed to the Bursar's Office.

HOUSING

RESIDENCE HALLS

Bowling Green is primarily a residential University, and more than 8,000 undergraduate students live in residence halls.

University residence halls provide a physical environment designed to further the academic, cultural, and personal development of the resident students. A wide range of living options is available to students and a wide variety of educational and social programs are offered.

Undergraduate students are required to reside in University-owned living units as a condition of enrollment unless they are commuting daily from the homes of their parents, guardian, or spouse; or unless they have attained 90 earned academic hours and/or six quarters of campus residency on or before the first day of classes for fall quarter. For the purposes of this regulation, a home is defined as the actual and regular place of residence in the community in which the parent, guardian, or spouse is eligible to register to vote. A guardian is defined as a person awarded legal guardianship by a court of competent jurisdiction. The housing acceptance agreement is a contract for the entire academic year. A student must be in compliance with the University housing policy as a condition for applying to be an exception to the policy.

Accommodations in University residence halls are available to any University student regardless of race, religion, creed, color, national origin, or handicap. The University expects landlords of off-campus accommodations to practice this same nondiscriminatory policy.

The University Housing Office, 440 Student Services Building (372-2011), is responsible for the assignment of all students to campus housing accommodations. This office processes all housing applications and roommate requests for assignment to the 21 residence halls and 29 sororities and fraternities on campus. Issuance and cancellation of University meal coupons are also coordinated through this office.

The Office of Residence Life, 425 Student Services Building (372-2456), is responsible for the operation, staffing, and programming of all campus living units, including sorority and fraternity houses. A trained residence hall staff including undergraduate resident advisers (R.A.'s) are present to help students derive the fullest possible benefits from the residence life experience.

HOUSING REGULATIONS

Responsibility for personal effects

During a student's residence in a hall, every effort is made to provide adequate supervision. However, the University cannot assume responsibility for loss or damage to personal effects of the student or guests of the University. If a student's parents have a blanket homeowner's insurance policy, the student's personal effects may be listed and covered in such a policy.

Generally, each room is completely furnished except for linens, pillows, blankets, and personal toiletries. A linen rental service is available to a student.

For detailed information regarding services and accommodations available contact the University Housing office.

Occupancy of rooms

Each student is required to vacate and remove personal belongings from the residence hall within 24 hours after the close of final examinations for the spring quarter, except for the student who receives a degree at the June Commencement. Such a student may remain in the university residence up to a designated hour on Commencement Day.

A student in good standing with the University is not required to clear his or her room of possessions at the close of the fall and winter quarters unless he or she has failed to acquire a paid housing reservation for the succeeding quarter. A resident who has not paid for additional accommodations, however, is required to vacate the room and remove personal belongings within 24 hours after the close of quarter examinations.

The University undertakes at all times to maintain pleasant living conditions in all its residence halls, and the right is reserved to remove an occupant at any time for violations of University and/or residence halls policies, rules, and regulations. Anyone found residing in University facilities who has not paid for accommodations, who is not a lawful resident of that facility, or who is found in a closed building may be charged with trespassing.

Vacation periods

During the vacation periods, the residence halls are not open to students. A student remaining over the Thanksgiving and spring recesses or between quarters needs to make special arrangements for off-campus housing during these periods.



The University Housing Office can assist in making these arrangements. The University reserves the right to assign, inspect, maintain, and make repairs in residences any time during the school year.

Change of University Address

If, for some reason, a student should find it necessary to change his or her campus address, such a change must be registered and approved by the University Housing Office in advance of the proposed move.

OFF-CAMPUS HOUSING

The Student Consumer Union, 405 Student Services Building, maintains a list of rooms and apartments which are recognized as adequate in terms of health, safety, and nondiscriminatory standards. It also maintains a mediation service to help resolve tenant-landlord disputes, and a counselor is available to assist off-campus students with any difficulties they may have.

A student who lives off campus does so on his or her own responsibility, and the University does not undertake to provide social and educational opportunities or the supervision furnished in University residence halls. A contractual arrangement exists between the student and the landlord exclusive of the University.

As a condition of enrollment, an off-campus student is expected to register his or her correct community address with the Housing Office before the payment of fees.

ROOM AND MEAL PLAN CHARGES

A student who wants to live on campus must apply for housing and sign a residential contract in the spring before the opening of the fall quarter. Dates and procedures for payment are outlined in the contract.

Four housing plans, with eight different rates, are available to students regardless of class rank as long as space is available. Priority of assignments is given to continuing upperclass students with seniors, juniors, sophomores, and incoming freshmen assigned in that order. Returning former students are assigned with new incoming students.

Plan I applies only to Offenhauer East and Offenhauer West. The rate for double occupancy, including the meal plan, is \$580 per quarter or \$1,740 for the academic year. A single occupancy room with the meal plan is \$660 per quarter or \$1,980 for the academic year.

Plan II includes Conklin Hall and McDonald North. Students living in these residence halls are not required to purchase the meal plan. Double occupancy rate is \$317 per quarter or \$951 per academic year. The single occupancy rate is \$397 per quarter or \$1,191 per academic year. These rates are for room only.

Plan III is for the room-only rent for fraternities and sororities, including the French House. These rates are \$336 per quarter, double occupancy (\$1,008 per academic year), and \$416 per quarter, single occupancy (\$1,248 per academic year). Since most Greek houses operate their own dining facilities, the University collects only room rent, leaving the various groups to collect their own meal plan charges.

Plan IV covers all other residence halls: Kreisler, Harshman, McDonald East and West, Founders, Rodgers, Kohl, Prout, Conklin, and Alpha Phi Alpha. Multiple occupancy rates, including the basic meal plan, are \$537 per quarter, or \$1,611 per academic year. Single occupancy, including the basic meal plan, is \$617 per quarter, or \$1,851 per academic year.

These are suggested rates for the 1980-81 academic year only and are subject to change as economic conditions warrant.

Additional information regarding living options and rates can be obtained from the University Housing Office, 440 Student Services Building, 372-2011.

Payment schedule

Since arrangements for residence on campus must be made before the opening of the fall quarter and the University wishes to accommodate as many students as possible, a

forfeiture schedule for late cancellations is maintained. This schedule appears in the acceptance agreement which is provided when the residence hall application is accepted. The acceptance agreement should be read thoroughly by both student and parents or guardian and retained for future reference. A residential contract card accompanies the agreement. It must be signed and returned with the initial payment, indicating acceptance of the provisions of the agreement. Payment may be made in full for the entire academic year or in accordance with a deferred plan described in the acceptance agreement. The initial payment date appears on the residential contract card.

Refunds

Adherence to the payment schedule is a prerequisite for admission. Should it be necessary to withdraw from the University after the acceptance agreement has been executed, the refund schedule outlined in the agreement is followed.

For information regarding other fee refunds see Fees and Charges, page 19.

Meal plan

The flexible meal coupon system gives students a choice of what, when and where they may eat and of how much they may select at each meal. There are six dining halls located on campus offering five to eight entrees at each meal, special hot and cold sandwich lines, and a salad bar at lunch and dinner. The "Towers Inn" (steak house) and "Strawberry Patch" (pancake house) are seated, waitress facilities catering to coupon customers. Two snack bars are also located on campus for student convenience.

Three meal plans are available. For the basic charge of \$220 per quarter, a student receives four books of coupons (Plan A) which provide approximately 9-11 meals per week. Two additional plans are available if the student remains on campus during weekends, prefers not to skip meals, or wants to take advantage of the restaurant and snack bar facilities. Plan B (\$264) provides a fifth coupon book while Plan C (\$308) offers six books, with the fifth and sixth books offered at a 20 percent discount.

Coupons are treated the same as cash and should be handled accordingly. In each book there are \$51.25 worth of coupons, which range in value from five cents to one dollar and which are used to pay for each item a student selects from the menu. Additional coupon books may be purchased at the Bursar's Office.

To obtain coupon books a student must pick up an authorization card at the front office of the residence hall. The authorization card must then be presented at the proper cafeteria with two pieces of identification. Cafeteria personnel will accept validation cards, drivers licenses, or University identification cards as ID's. To help insure that a coupon book will be returned in case it is lost, the student should write his or her name, address, and telephone number on each book.

If a student finds that he or she cannot use the meal coupons each quarter, the option is available of selling the coupons to other students. Because of fixed operating costs, the University cannot refund unused coupons each quarter. Guests are welcome in the dining halls and their meals can be purchased with coupons or cash.

The University Food Service provides a large food selection to give students the opportunity to choose a balanced diet to their liking. Students on special diets can be accommodated if a statement from a physician indicates the type of diet to be followed and supplies the Food Service staff with a copy of the diet.

Students have the opportunity to contribute ideas to the Food Service management. Questions should be directed to individual dining hall managers or the director of Residence Food Service, 200 Centrex Building, 372-2891.

FINANCIAL AID

The Office of Financial Aid, 450 Student Services Building (372-2651), coordinates all forms of financial aid that are available from the University, the Bowling Green State University Alumni Association, the Development Program, state and federal programs, and other sources. Personal counseling with students and their parents on various aspects of college financing is a service which is also provided through this office.

While the University recognizes that it is the responsibility of each student and his or her family to make a reasonable contribution to the student's cost of education, there is also a recognition that the student may require financial assistance. A student's financial need is the difference between the expected family contribution and the cost of attendance.

Financial aid is limited generally to full-time students, except for Basic Educational Opportunity Grants, for which part-time undergraduate students may be eligible. Undergraduate students will be considered for scholarships, grants, loans, and the College Work-Study Program. Graduate students will be considered for loans and the College Work-Study Program. Further information regarding financial aid for graduate students can be obtained from the *Graduate Bulletin* and the Graduate College.

Each applicant must file the Family Financial Statement (FFS) with the American College Testing Program or the Financial Aid Form (FAF) with the College Scholarship Service. Consideration in this analysis is given not only to the family income but also to other assets, other children in college, number of dependents, and extraordinary indebtedness or expenses. This analysis is required prior to consideration for scholarships, grants, loans and the College Work-Study Program.

An enrolled student, transfer student, or graduate student should obtain an application for financial aid from the Office of Financial Aid after January 1 for the following academic year. The application deadline is April 1. Applicants will be notified of their financial aid awarded by July. Applications received after the deadline date will be reviewed by the Financial Aid Committee at a later date, pending the availability of funds.

Various forms of assistance are explained below. It is beneficial for each student to examine each in detail to identify those forms of aid for which he or she may qualify.

ASSISTANTSHIPS

The University employs qualified juniors or seniors to assist in departments or to serve as residence hall advisers.

Information about graduate assistantships in various departments or residence halls is available from the Graduate College.

EMPLOYMENT

Approximately 40 percent of the students at Bowling Green State University earn part of their expenses annually through work on campus or in the greater Bowling Green area. Candidate referrals are made by the Student Employment Office, 460 Student Services Building (372-2651), and are followed by a personal interview between the student and the employer. Students typically work as departmental and library assistants, custodians, clerks, receptionists, and typists, as well as in home cleaning, general labor, child care, and food service work.

The Student Employment Office also provides a centralized listing of summer opportunities. Examples of summer employers are camps, resorts, contractors, and business or industrial firms.

Students whose parents can provide only limited support for their college expenses may be eligible for employment under the College Work-Study Program. This program is partially financed by a federal grant, and the work assignments can be in any campus department or office and with off-campus contracted employers. The Office of Financial Aid determines who qualifies for the College

Work-Study Program and jobs are provided through the Student Employment Office.

Campus employment is available for students who are carrying a minimum of six credit hours as undergraduates or four hours as graduate students and are in good academic standing. Students are restricted to a maximum work schedule of 60 hours per pay period. Entering freshmen are encouraged to limit their employment until they have adjusted to campus life and academic studies.

The Student Employment Office is responsible for all personnel policies, procedures, and regulations governing student employees.

Bowling Green State University is an equal opportunity employer with a program of affirmative action.

GRANTS

Several grant programs are available to students who qualify. Grants do not have to be repaid.

Basic Educational Opportunity Grants (BEOG)

This is a federal grant program for undergraduate students enrolled for six or more hours per quarter. The maximum period of eligibility is 12 quarters of full-time undergraduate study. Eligibility for this grant is determined by the federal government. The maximum grant for the 1980-81 academic year is \$1,800. The maximum grant may not exceed one-half the allowable cost of education at Bowling Green. Applicants may file a Family Financial Statement (FFS) with the American College Testing Program or a Financial Aid Form (FAF) with the College Scholarship Service to apply for this grant at no cost. These forms should not be completed until January and are based on the prior year's income.

Grants-in-aid

A student majoring in art, music, or speech, or participating in intercollegiate athletics may possess special talents which may give him or her consideration for a special talent grant-in-aid. Application for such an award must be made to the head of the department involved.

Law Enforcement Education Program (LEEP)

The Law Enforcement Assistance Administration of the United States Department of Justice, through its Law Enforcement Education Program (LEEP) has allocated funds to Bowling Green State University to assist undergraduate and graduate students enrolled in degree programs which will prepare them for work in criminal justice or correctional careers. Due to a shortage of available funds, the program is presently restricted to students currently employed full time by a law enforcement or correctional agency.

Students accepting assistance from this source must guarantee that they will continue their employment with a publicly funded law enforcement or correction agency upon completion of their course of study.

All students interested in information and application should contact the Office of Financial Aid.

Nursing Program

Financial assistance is available to students admitted to the University under the nursing program who have attained sophomore status. Federal Nursing Grants and Loan funds are available in addition to other forms of financial assistance to students who demonstrate a financial need and meet the academic requirements. Students must apply to the Office of Financial Aid.

Ohio Instructional Grants (OIG)

The Ohio Instructional Grant Program provides grants to financially needy students. The grants are not awarded upon the basis of scholarship but on relative financial need.

To be eligible for an Ohio Instructional Grant a student must be a resident of Ohio, be enrolled as a full-time undergraduate, and maintain a grade point average or obtain other standards of achievement considered by the University to indicate satisfactory progress toward an associate or bachelor's degree.

Ohio Instructional Grants are administered by the Ohio Board of Regents, Student Aid Office, 30 East Broad Street, 36th Floor, Columbus, Ohio 43215.

Applications are available at high schools and from the Office of Financial Aid.

Ohio National Guard Program

The Ohio National Guard Program offers college students up to four years of fee scholarships to full-time students, which cover instructional and general fees at state-assisted institutions. Scholarships are restricted to Ohio residents who have enlisted or re-enlisted or extended their current enlistment in the National Guard for at least six years.

Interested students should contact the Adjutant General's Department, 2825 West Granville Road, Worthington, Ohio 43085.

Student Development Program

The Student Development Program assists educationally disadvantaged students with their financial and educational responsibilities. For additional information, contact the Student Development Program, 424 Student Services Building, 372-2642.

Supplemental Educational Opportunity Grants (SEOG)

Federal grants are available to students with exceptional financial need. This grant must be matched with an equal amount of aid administered by the University such as a National Direct Student Loan, scholarship, grant-in-aid, or campus employment. The awards range from a minimum of \$200 to \$1,000 for an academic year. Eligibility is limited to a four-year program and the total of all awards may not exceed \$4,000.

Veterans

Bowling Green State University is approved for veterans training. Information about this program may be obtained from the veterans representative, 110 Administration Building.

Vocational rehabilitation

A student who has a physical disability may be eligible for assistance from the Bureau of Vocational Rehabilitation. In Ohio, information may be obtained from the Bureau of Vocational Rehabilitation, 4550 Heaton Road, Columbus, Ohio 43229, or from a regional office of the bureau.

LOANS

Long-term and short-term loans are available.

Guaranteed Student Loans

Under this program a student may borrow up to \$2,500 a year, or a total of \$7,500 as an undergraduate, from banks, savings and loan associations, or credit unions. Graduate students may borrow up to a total of \$15,000, including undergraduate loans. The interest is paid by the federal government while the student is in school, and until nine months after graduation or termination of studies. The interest rate is 7 percent per year simple interest. The student must apply directly to the financial institution for this loan.

National Direct Student Loans (NDSL)

This is a long-term loan at three percent per year simple interest. An undergraduate student may borrow up to \$1,200 during an academic year or a total of \$5,000 as an undergraduate. A graduate student may borrow up to a total of \$10,000, including undergraduate loans. Interest or repayment of principal does not commence until nine months after graduation or termination of studies. An undergraduate student must have at least a 2.0 accumulative grade point average and graduate students must be admitted unconditionally to be eligible for consideration. Students attending during summer term only are not eligible for a National Direct Student Loan. A student admitted to the University as a transient student is not eligible for a loan. A special loan cancellation privilege is given if the borrower teaches the handicapped or teaches in a depressed area.

Short-term loans

The University has limited funds available for short-term loans to students for educational expenses and personal emergencies.

Emergency loans are available to a maximum of \$75 for a period of one month without interest. Students must be in good academic standing and enrolled full time to receive this loan. Application is made at the Office of Financial Aid.

A student may receive a larger loan for a current quarter, to be repaid within that quarter, at an interest rate of four percent per year simple interest. Such a loan can be obtained by a student who finds it impossible to make the total payment of fees at the time specified by the University. Often, such a student is receiving monthly stipends for Social Security, Veterans Administration benefits, or other similar programs. A student must have a 2.0 accumulative grade point average or better to be eligible. These loans are not available to first-quarter freshmen. Application is made through a conference with a staff member in the Office of Financial Aid, 450 Student Services Building.

SCHOLARSHIPS

A limited number of academic scholarships are available to both entering and continuing undergraduate students, regardless of need, who have outstanding scholastic records. Other scholarships are awarded on the basis of academic achievement and need as determined by the American College Testing Family Financial Statement or the College Scholarship Service Financial Aid Form.

Information on available scholarships may be obtained from a review of the inventory book on scholarships, honors, and awards available in each of the college offices, the Office of the Vice Provost for Institutional Planning and Student Affairs, and the Office of Financial Aid.



ORGANIZATIONS AND ACTIVITIES

Social, cultural, and athletic programs are sponsored by various student organizations and academic departments of the University to round out the education of the student. An opportunity for self-government is afforded each student through his or her elected representative or by his or her own election to office. Many academic departments and student groups provide additional opportunities for learning through lectures, seminars, and activity programs.

Each voluntary student organization is considered to be a representative agency of student life in its area of interest and activity.

The Office of Student Organizations and New Student Programs, 405 Student Services Building (372-2843), is the center for student body government, campus organizations, the coordination of social programs, and Freshman Pre-Registration and Orientation, all of which are designed to aid the total development of the student at Bowling Green.

ORGANIZATIONAL REGULATIONS

Students are free to organize and join associations to promote their common interests providing these associations are organized for legal purposes and do not conflict with the University's educational objectives.

The Organizations Board of the Student Government Association will, subject to review by the Student Senate, register social, service, special interest, and professional organizations based on the following policy:

1. Affiliation with an extramural organization will not of itself disqualify a student organization from institutional registration.
 2. Campus advisers who are members of the faculty or staff are required for any student organization receiving University funds. They are encouraged for all other organizations. Campus advisers may counsel organizations in the exercise of responsibility, but they will not have authority to control the policy of the organization.
 3. Student organizations will be required to submit a statement of purpose, criteria of membership, rules of procedures, and a current list of officers. They will not be required to submit a membership list as a condition of registration.
 4. Organizations, including those affiliated extramurally, must be open to all students without respect to race, creed, national origin, age, sex, political views, or handicap.
- For a current list of campus organizations and activities, contact the Office of Student Organizations and New Student Programs, 405 Student Services Building, 372-2843.

STUDENT GOVERNMENT

An agency through which a student may participate in University administration and government is the Student Government Association, which includes the executive officers and 16 student senators. These groups function under a definite set of responsibilities and authority delegated by the president of the University and the University Board of Trustees and outlined in a constitution adopted by a majority vote of the student body.

The Student Government Association provides the student with a wide range of opportunity for responsible participation in the government of the University community and gives the University the advantage of student deliberation and experience in arriving at the soundest possible policies and practices with respect to matters which relate directly and uniformly to each student enrolled in the University. All councils and boards of the Student Government Association have available the advice of faculty members or administrative officers of the University.

In addition to the Student Government Association, the qualified student may serve on other policy-determining and administrative councils and committees of the University.

UNIVERSITY ACTIVITIES ORGANIZATION

All students may participate in planning and organizing social, cultural, and educational programs for the University community through the University Activities Organization.

The entire organization is involved with such events as Homecoming and the University's Mardi Gras celebration. There are 14 committees: Administrative, Campus Films, Coffeehouse, Exhibits, Games, Mini-Courses, News and Views/ Lectures, Outdoor Recreation, Performing Arts, Publications, Publicity, Public Relations, Special Events, and Travel.

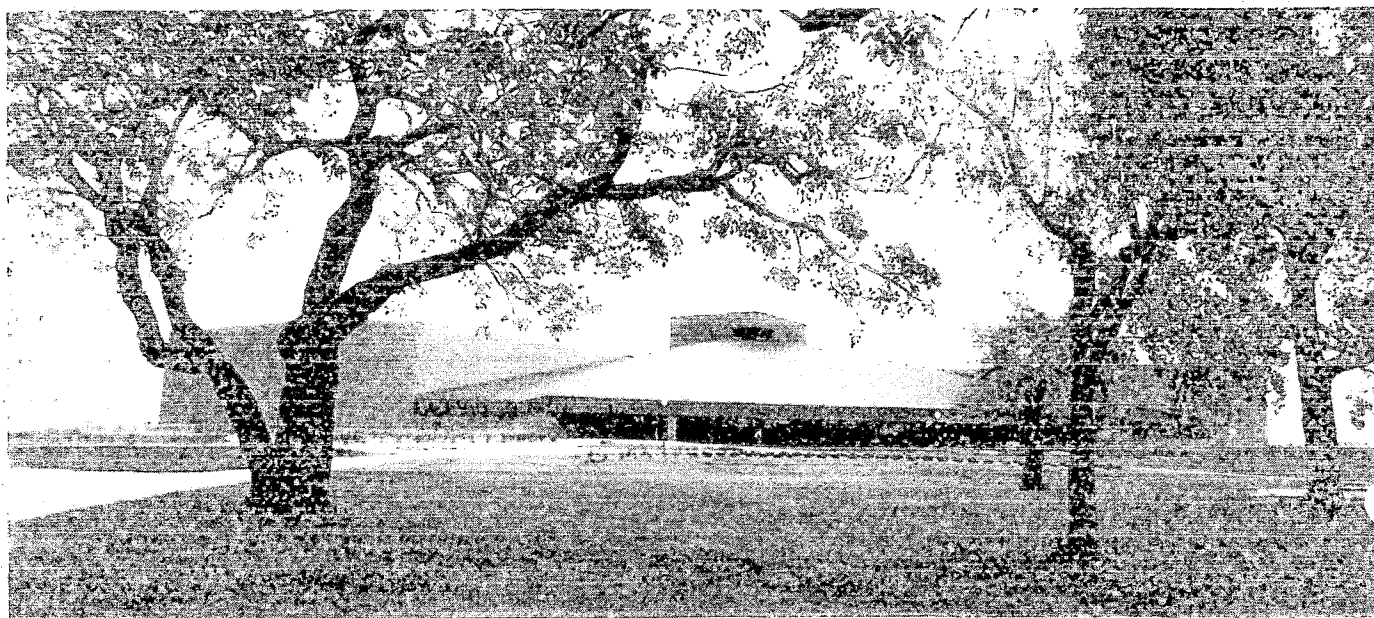
The University Activities Organization provides students with the opportunity to organize functions affecting the entire student body while developing leadership skills.

ATHLETICS

Intercollegiate athletics

Participation and excellence are primary goals of Bowling Green intercollegiate athletics. As part of the largest total-sports program in the Mid-American Conference, nearly 1,000 men and women compete for championship recognition each year on 25 varsity teams.

Men's and women's teams exist in basketball, cross country, golf, swimming, tennis, and indoor and outdoor track. Men compete in football, baseball, hockey, soccer, and wrestling, while women compete in gymnastics, field hockey, lacrosse, volleyball, and softball.





Club sports include cricket, fencing, gymnastics, hockey, karate, lacrosse, orienteering, riflery, rugby, sailing, skating, skiing, soccer, synchronized swimming, table tennis, volleyball, water polo, and weight training.

The University is a member of the National Collegiate Athletic Association (NCAA), the Association of Intercollegiate Athletics for Women (IAIW), and the 10-university Mid-American Conference (MAC). Bowling Green competes regularly with nationally prominent teams from other major conferences.

To be eligible for intercollegiate athletic competition, a student must meet various academic standards established by the University, the NCAA, IAIW, and MAC, as appropriate. When a student becomes involved on any of the teams that compete in intercollegiate contests, it is assumed that he or she does so with the knowledge and consent of his or her parents or guardian. Every precaution is taken to safeguard the health of the student athlete, and a physician is generally present at intercollegiate contests in the more rigorous sports. Although the University carries a restricted type of insurance on team members, it can guarantee to pay only the cost of first-aid treatment in the event of injury.

Intramural and recreational sports

The intramural and recreational sports program offers a wide variety of activities for men and women including badminton, basketball, bowling, golf, handball, hockey, racquetball, soccer, softball, swimming, touch football, and volleyball.

Many of these are offered as coed sports. Information regarding these and other activities may be obtained at the intramural office, located in 201 Memorial Hall, and the Student Recreation Center 8 a.m. to 5 p.m. daily.

Athletic facilities

Athletic facilities at the University include: an 18-hole golf course; an ice arena; 25 outdoor tennis courts; the North and South gymnasiums; 5,200-seat Anderson Arena; 23,000-seat University Stadium; Steller Field, which seats 2,000 for baseball; Whittaker Track; numerous activity and practice fields; and the new Student Recreation Center (see below).

Student recreation center

The Student Recreation Center, with its two swimming pools, 14 handball/racquetball courts, running track, saunas, and courts for basketball, volleyball, tennis, and badminton, among other facilities, is the focal point for campus sports and recreational activity.

All registered full-time students may use the center as often as desired. A usage fee is included in their general fee paid each quarter. Part-time students must pay a usage fee of \$30 per quarter. Special plans for spouses and children of students are available. For more information, contact the center or consult the Student Recreation Center brochure.

FIRELANDS COLLEGE ORGANIZATIONS

See page 116 for a description of organizations and activities at Firelands College.

UNIVERSITY SERVICES

ACADEMIC SERVICES

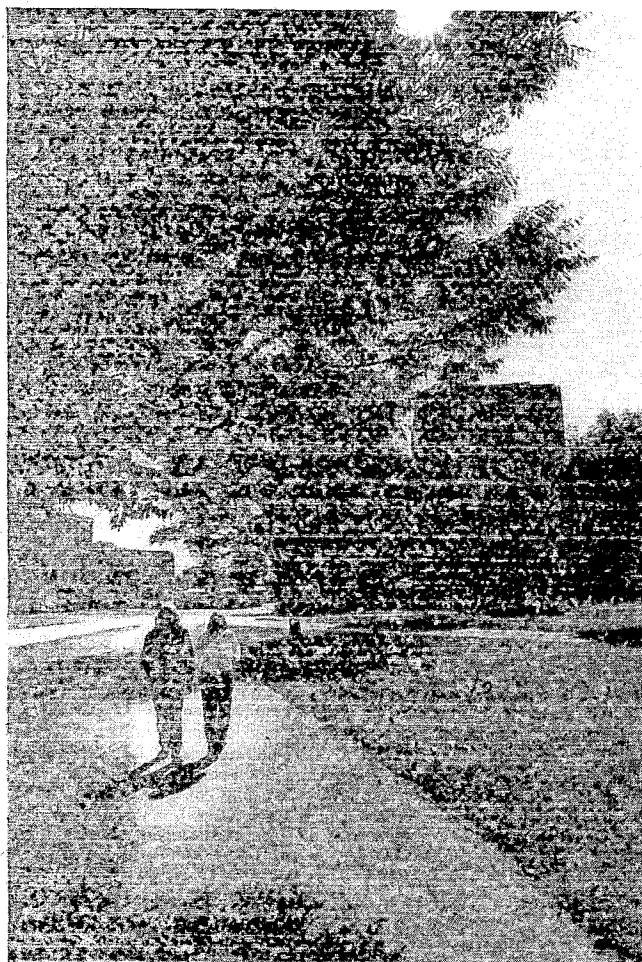
Bowling Green State University provides a variety of academic services to assist students in their educational development.

The Reading Center, 576 Education Building, provides diagnostic testing and counseling in reading and gives instruction and practice in reading improvement. Such instruction and practice are available through self-referral or by enrolling in EDCI 091 (developmental reading.) Courses in reading are offered each quarter.

The Writing Laboratory, 303 Moseley, provides individualized instruction for those who seek help with any aspect of basic college writing. The laboratory also offers continued instruction in specialized writing skills that students often need as they pursue advanced courses of study. The laboratory is a free service and is available to all students.

The Language Laboratory, located in 302, 303, and 304 University Hall, serves the Romance Languages and German and Russian Departments, and occasionally English and Asian studies, providing intensive instruction in foreign language. Listening, recording, and audio-visual facilities are available. Students may use the laboratory through their foreign language classes as well as during open hours. Laboratory personnel include assistants proficient in one or more languages who supervise and aid students.

The Developmental Education Program offers academic counseling, tutoring, and courses designed to provide alternatives to conventional instruction. Since classes offered through the program are relatively small, the students receive much more individual attention than they normally would in more conventional courses. Student academic achievement is also closely monitored by both faculty and staff.



The Student Development Program recruits disadvantaged students from various backgrounds and provides supportive services once they reach campus. Offering educational opportunity and personal development, the program helps students achieve educational and vocational goals by assisting them with their financial and educational responsibilities.

Each student at the University is assigned an academic adviser. The adviser assists students in planning their quarterly schedules, checking their progress toward completing graduation requirements, and helping them in the long-range planning of their programs. It is the student's responsibility to contact the adviser; names and locations of advisers are available in the college offices.

Academic advising and help in career planning are also available in each college office and in the University Division of General Studies. College office locations and telephone numbers are as follows:

Arts and Sciences, 215 Administration Building, 372-2015
Business Administration, 371 Business Administration Building, 372-2747
Education, 444 Education Building, 372-0151
Firelands, 150 North Building, 433-5560
Health and Community Services, 100 Health Center, 372-0242
Musical Arts, Musical Arts Center, 372-2181

SUPPORT SERVICES

Computer Services

Bowling Green provides students, faculty, and staff with access to diverse computing capabilities through several large-scale computers. A DEC System 2050 is available for interactive use (with BASIC, FORTRAN, APL, and other popular computer languages) from terminals located in the Mathematical Sciences Building, Business Administration Building, and other areas on campus including several residence halls. An IBM 360/75 is available for batch processing via Computing Service Centers equipped with card readers and line printers in the Business Administration Building and the Mathematical Sciences Building. A large minicomputer facility with computer graphics is located in the Technology Building.

Students using these facilities for course work will be introduced to the appropriate computer systems by their instructors. Others should contact a consultant at one of the Computing Service Centers for assistance.

A staff of consultants is available to help users of the many test scoring, modeling, and statistical software packages maintained by the University Computer Service Department. A comprehensive list of available hardware and software and user documentation is available upon request from one of the consultants.

Counseling and Career Development Center

The Counseling and Career Development Center, 320 Student Services Building (372-2081), provides free counseling services to students. This includes assistance with educational, career, personal, and social concerns. A variety of developmental and skill-oriented programs focusing on such topics as effective study habits, test anxiety management, career exploration, and effective interpersonal relations are offered each quarter. The center also contains the Career Educational Library in which written and audio-taped information on academic majors, careers, and colleges and universities is available. A number of testing programs including the American College Test (ACT), College Level Examination Program (CLEP), Graduate Record Examination (GRE), Graduate Management Admissions Test (GMAT), National Teachers' Examination (NTE), Medical College Admissions Test (MCAT), Law School Admissions Test (LSAT), Miller Analogies Test (MAT), and the Cooperative English Examination (CEE) are administered by the center. Language tests for placement in appropriate language courses and a variety of career-related interest and values inventories are given in the center.

The staff is available for consultation with individual faculty and staff regarding student concerns and with student groups regarding organizational concerns such as leadership, decision making, goal setting, and programming.

Students are seen on a walk-in basis or by appointment. Center hours are 8-5 Monday through Friday.

Handicapped Services

The Office of Handicapped Services, 705 Administration Building, provides disabled persons with the opportunity to participate in a broad range of educational and employment activities by eliminating architectural barriers, modifying attitudinal barriers, encouraging independence of the individual, and acting as a liaison between rehabilitation agencies and various University offices.

Student Health Service

The Student Health Service, located in the University Health Center (372-2271), provides medical care to students at the first-contact phase in the health care delivery system.

The Student Health Service has clinical facilities and a staff of resident physicians, registered nurses, a pharmacist, and technicians working in the clinical laboratory, physical therapy, pharmacy, and x-ray departments.

Regular clinic hours are 8 a.m. to 8 p.m. Monday through Thursday; 8 a.m. to 5 p.m. Friday; 10 a.m. to 1 p.m. Saturday; and 12 noon to 2 p.m. Sunday.

Students are charged for laboratory, x-ray, physical therapy, and pharmacy services of the Student Health Service. Some laboratory procedures and medical consultations are referred to outside sources at the student's expense.

Students who become ill or are injured at times when the Student Health Service is closed and who believe that immediate medical attention is required should report to the emergency room of the Wood County Hospital. Students who use this service will be expected to pay for the cost of treatment.

Nonemergency transportation service to and from the Student Health Service and Wood County Hospital will be provided by University personnel at no cost. Ambulance service is provided by the City of Bowling Green at the student's expense.

A Blue Cross-Blue Shield student group insurance program is available to students at a reduced student rate. Students should check any hospitalization program under which they are covered (generally as a dependent) since insurance companies have varying reimbursement policies. Students are encouraged to carry some form of health care insurance.

Instructional Media Center

The Instructional Media Center, 101 Education Building, provides instructional materials and consultation services. Media specialists, production technicians, and utilization experts work with faculty, staff, and students in identifying instructional needs and providing equipment necessary for classroom presentations. Services for regularly scheduled classes are free of charge while other charges are based on the materials used and wages when labor is charged.

For a more efficient service, the Instructional Media Center maintains full-time staff members in 112 Mathematical Sciences Building to serve the science complex and in 104 Technology Building to serve that area.

Parking Services

The University recognizes that the use of an automobile for transportation is a part of the daily living of many students. The University requires the registration of any motor vehicle, within 48 hours of its initial arrival on campus, that is owned or operated by a student when such vehicle is operated or parked on any property owned or controlled by the university.

An automobile registration charge of \$20 per year (September 1 through August 31) is required of each student who registers an automobile with the Parking Service Office, Commons Building (372-2776). A temporary registration can



be obtained for \$1 per week, and may be renewed for \$1 per each additional week. Each automobile on campus must be registered and its decal displayed in accordance with instructions.

Placement Service

The University Placement Service, 360 Student Services Building, (372-2356), is responsible for providing counseling and employment services to graduating seniors, advanced degree candidates, and alumni. To facilitate these services, more than 1,400 employer representatives from education, government, industry, and social service organizations are invited to the campus each year. Normally, these recruiters conduct over 9,000 interviews in their search for qualified employees.

The six full-time staff members provide individual counseling and a variety of programs and services which assist students in determining and implementing career and educational choices. Students are encouraged to use the services of the office at the beginning of their senior year, especially in regard to establishing files and scheduling interview times.

A full description of services and programs is contained in the *Placement Manual*, which is available to all students interested in placement services.

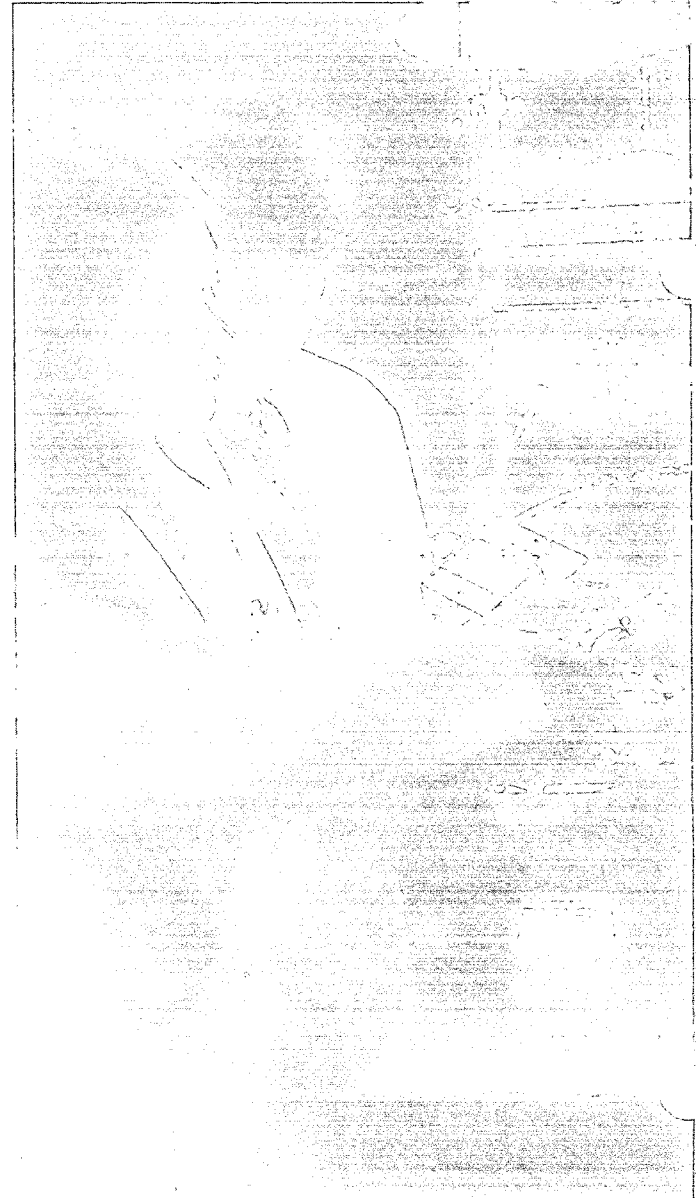
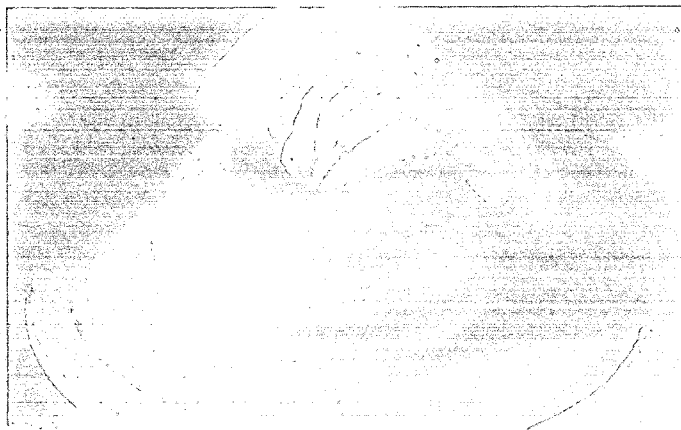
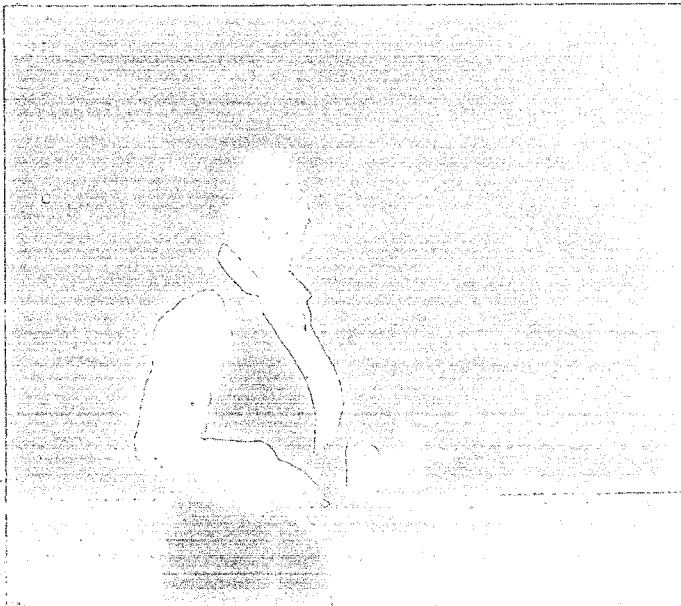
Psychological Services Center

The Psychological Services Center, located in the Psychology Department, provides services through its doctoral training program to University students on a limited basis. Services include diagnostic evaluations, treatment of behavior disorders through psychotherapy, behavior therapy, biofeedback, and marriage counseling, and case and program consultation to University and community agencies. Referral to the Center may be made by calling 372-2540.

Speech and Hearing Clinic

The Speech and Hearing Clinic, 338 South Hall (372-2223), assists the student who has a problem in speech or hearing. Any student interested in an examination and/or possible therapy should contact the clinic for an appointment.

The Speech and Hearing Clinic also extends its services to children and adults in northwestern Ohio and Michigan.



COLLEGE OF ARTS AND SCIENCES

OFFICE OF THE DEAN

John G. Eriksen, *Dean*, 205 Administration Building,
372-2015

Allen N. Kepke, *Associate Dean*, 205 Administration
Building, 372-2015

OFFICE OF RESOURCES, PLANNING, AND SCHEDULING

Ralph N. Townsend, *Associate Dean*, 205 Administration
Building, 372-2015

OFFICE OF DEGREE PROGRAM ADVISING AND COUNSELING

Donald M. Ragusa, *Associate Dean*, 205 Administration
Building, 372-2015

Department of Biological Sciences, Gary T. Heberlein,
Ph.D., *Chair*, 217 Life Sciences Building, 372-2332

Department of Chemistry, Douglas C. Neckers, Ph.D.,
Chair, 110 Hayes Hall, 372-2031

Department of Computer Science, David L. Fulton, Ph.D.,
Chair, 207 Mathematical Sciences Building, 372-2337

Department of English, Lester E. Barber, Ph.D., *Chair*, 202
University Hall, 372-2576

Department of Ethnic Studies, Robert L. Perry, Ph.D.,
Chair, 117 Shatzel Hall, 372-2796

Department of Geography, Joseph G. Spinelli, Ph.D., *Chair*,
305 Hanna Hall, 372-2925

Department of Geology, Richard D. Hoare, Ph.D., *Chair*,
170 Overman Hall, 372-2886

Department of German and Russian, Joseph L. Gray,
Ph.D., *Chair*, 139 Shatzel Hall, 372-2268

Department of History, Gary R. Hess, Ph.D., *Chair*, 117
Williams Hall, 372-2030

Department of Mathematics and Statistics, Wallace L.
Terwilliger, Ph.D., *Chair*, 450 Math Sciences Building,
372-2636

Department of Philosophy, Fred D. Miller, Ph.D., *Chair*, 219
Shatzel Hall, 372-2117

Department of Physics, Ronald E. Stoner, Ph.D., *Chair*,
270 Overman Hall, 372-2421

Department of Political Science, William O. Reichert, Ph.D.,
Chair, 223 Williams Hall, 372-2921

Department of Popular Culture, Ray B. Browne, Ph.D.,
Chair, Popular Culture Building, 372-2981

Department of Psychology, Donald V. DeRosa, Ph.D.,
Chair, 207 Psychology Building, 372-2301

Department of Romance Languages, Richard Hebein,
Ph.D., *Chair*, 122 Shatzel Hall, 372-2667

Department of Sociology, Joseph E. Kivlin, Ph.D., *Chair*, 40
Williams Hall, 372-2294

School of Art, Maurice J. Sevigny, Ph.D., *Director*, Fine
Arts Building, 372-2786

School of Speech Communication, Allen S. White, Ph.D.,
Director, 109 South Hall, 372-2136

ARTS AND SCIENCES

The College of Arts and Sciences is devoted to guiding the student in the development of the creative intellectual ability and concern fundamental to the search for knowledge which is the primary purpose of all educated men and women. Through a curriculum which emphasizes a breadth of intellectual inquiry in the natural and physical sciences, the social sciences, the arts, and the humanities, the student is brought into contact with the great questions (epistemological, ethical, social, aesthetic, and scientific) which every man or woman must ultimately consider. As an integral part of this higher learning, students pursue work in major fields of interest that require the learning of the critical and scholarly methods involved in developing and testing new knowledge.

Programs offered in the College of Arts and Sciences provide a foundation for any vocation or career objective. Largely because of this breadth of education, vocational opportunities exist for many graduates of the four-year arts

and sciences program. Certain professions such as medicine and law, however, require that the student plan to attend a graduate school after receiving the arts and sciences degree.

PROGRAMS OFFERED

The following degree programs are available:

College of Arts and Sciences

Bachelor of Arts
Individualized planned programs
Afro-American studies
Major and minor
American studies
Planned program
Art
Major and minor
Art history
Major and minor
Asian studies
Major and minor
Business administration
Major and minor
Classical studies
Major
Computer science
Major and minor
Economics
Major and minor
English
Major and minor
Film studies
Major and minor
French
Major and minor
Geography
Major and minor
Geology
Major and minor
German
Major and minor
History
Major and minor
Home economics
Fashion Merchandising
Food science and nutrition
Interior design
Textiles and clothing
Home economics general
Major and minor
International studies
Planned program
Latin
Major and minor
Latin American studies
Planned program
Mathematics
Major and minor
Music
Major and minor
Philosophy
Major and minor
Political science
Major and minor
Popular culture
Major and minor
Psychology
Major and minor
Russian
Major and minor

Russian studies
Planned program
Sociology
Major and minor
Spanish
Major and minor
Speech communication
Communication disorders
Major and minor
Interpersonal and public communication
Major and minor
Radio-television-film
Major and minor
Theatre
Major and minor
Transdisciplinary major
Major and minor
Statistics
Major
Women's studies
Major and minor
Bachelor of Science
Individualized planned programs
Biological sciences
Major and minor
Microbiology
Chemistry
Major and minor
Computer science
Major and minor
Environmental studies
Planned program
Geology
Major
Geochemistry
Geophysics
Paleobiology
Mathematics
Major and minor
Physics
Major and minor
Psychology
Major and minor
Statistics
Major
Bachelor of Liberal Studies
Liberal studies
Bachelor of Fine Arts
Creative writing
Major and minor
Subjects offered as minors only
Astronomy
Italian
Library and educational media
Linguistics
Mass media
Science
Preprofessional programs
Four-year curricula
Preparation for business

Preparation for college teaching	Combined curricula
Preparation for graduate study	Arts-education curriculum
Preparation for careers in home economics	Other dual degree programs
Preparation for library work	Certification to teach in the public schools
Preparation for professional work in mathematics and the sciences	Combined baccalaureate-master's programs
Preparation for public administration	3/2 arts and sciences-graduate business program
Preparation for religious work	Combined baccalaureate-master's program in chemistry
Arts-professional curricula	Other combined baccalaureate-master's programs
Arts-engineering program	School of Art
Preparation for dentistry	Bachelor of Fine Arts
Preparation for law	Art history
Preparation for medicine	Ceramics
Preprofessional preparation	Crafts
Preparation for engineering	Design
Preparation for mortuary science	Environmental
Preparation for occupational therapy	Graphic
Preparation for optometry	Drawing
Preparation for osteopathy	Jewelry and metalsmithing
Preparation for pharmacy	Painting
Preparation for physical therapy	Prints
Preparation for veterinary medicine	Sculpture
	Teacher preparation
	School of Speech
	Communication
	Bachelor of Arts in Communication
	University Division of General Studies

GENERAL REQUIREMENTS FOR A DEGREE

In addition to specific requirements listed on the following pages, a candidate for any degree in the College of Arts and Sciences must meet the general requirements for the baccalaureate degree listed on page 7, in addition to the following:

1. Meet the general education group requirements listed below, preferably in the freshman and sophomore years;
2. Satisfy the requirements for a major and minor area of specialization (if applicable — courses taken for a major may not also be counted for a minor).

Courses may be counted toward the required 183 credits if they are:

- a. required or recommended in the student's major or minor;
- b. basic courses in health and physical education — PEG 100 and 200 (in addition to activities required above) — or basic or advanced courses in Air Force or Army ROTC programs;
- c. offered by the following departments or divisions: art (except 252, 343, 352, 353); biological sciences; chemistry; computer science; economics (except 461); English; geography; geology; German and Russian; history; mathematics (except 241, 242, 243, 414, 415); music (except MUED 351, 352, 353, 354, 355, 356, 456, and courses in pedagogy); philosophy; physics; political science; popular culture; psychology; romance languages; sociology; speech communication (except SPCH 351, CDIS 425, CDIS 435).

A maximum of 20 hours not meeting these specifications may be included in the 183 hours for the degree offered by the College of Arts and Sciences. Courses marked *not for Arts and Sciences credit* may be elected under this provision.

Academic Advising

Although the adviser and the dean's office counsel students and check each student's record, the responsibility for meeting graduation requirements lies with the student and not with the adviser, the department, or the dean. Thorough familiarity with the *General Bulletin* is essential.

BACHELOR OF ARTS DEGREE

Each student must complete the group requirements listed below as nearly as possible in the freshman and sophomore years and must satisfy the requirements for a major and a minor area of specialization. Every student, however, must take English and physical education in the first year. If known, the major or minor may be started in the first year; but selection of the major may be made as late as the junior year.

GENERAL EDUCATION GROUP REQUIREMENTS

GROUP 1: COMMUNICATION

Students are required to complete ENG 112 or to demonstrate by examination that they have proficiency in written expression equivalent to that attained by the student who completes that course. SPCH 102 is recommended for each student.

GROUP II: FOREIGN LANGUAGE (FRENCH, GERMAN, ITALIAN, JAPANESE, LATIN, RUSSIAN, SPANISH) OR CULTURAL EXPERIENCE

Each student is required to demonstrate a proficiency in a language and language area as stipulated in the options listed below by:

1. having been graduated from a high school where all instruction was conducted in a language other than English; or
2. passing a proficiency examination in the language on the 202 course level; or
3. having completed four years of one language in high school; or
4. having completed one of the departmental options listed below (20 hours minimum in the same language area, or fewer by advanced placement).

German, Japanese, Russian

Completion of GERM 101, 102, and 103 plus a minimum of eight additional hours from: GERM 100, 117, 118, 119, 201, 202, 217, 231, 331, and/or GERM 260, 315, 316; or

Completion of JAPN 101, 102, 103, 201, and 202; or

Completion of RUSN 101, 102, and 103 plus a minimum of eight additional hours from: RUSN 100, 201, 202, 303, 315, 316, 317, 319, 331, and/or RUSN 311, 312, 313.

Romance Languages (French, Italian, Latin, Spanish)

Option I:

FREN 101, 102, 103, 201, and 202; or

ITAL 101, 102, 103, 201, and 202; or

LAT 101, 102, 103, 201, and 202; or

SPAN 101, 102, 103, 201, and 202

Option II: one of the following:

FREN 111, 112, 113, 211, and 212;

LAT 101, 102, and 103, and two of: LAT 141 and/or 142 and/or 201;

SPAN 111, 112, 113, 211, and 212

A student may transfer at any point from option I to option II but not vice versa. If a student selects option II, he/she must complete all courses in that sequence subsequent to the first course in which he/she is placed. Course 202 is required for admission to 300-level courses.

GROUP III: MATHEMATICS AND SCIENCE

Each student must complete both 1 and 2.

1. At least three courses elected from astronomy, biological sciences, chemistry, geology, physics, or physical geography (including GEOG 125, 126, 127, 213, 404) including at least two courses approved for laboratory credit. A list of approved courses is available in the office of the College of Arts and Sciences.

2. One of the following:

- a. three and one-half years of high school mathematics or equivalent proficiency as demonstrated on a placement test;
- b. MATH 115, 122, 124 or 130;*
- c. MATH 110 or 121* and one of the following: PHIL 103, CS 100, CS 101, or CS 103;
- d. three years of high school mathematics and CS 100 or CS 101 or CS 103. High school mathematics means

*See Department of Mathematics and Statistics for placement test.

college preparatory mathematics, which normally includes algebra I and II, geometry, and in the case of three and one-half years, trigonometry. Remedial, technical, and business mathematics are not applicable.

GROUP IV: SOCIAL SCIENCES: ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY

Each student is required to complete six courses selected from at least three areas with at least three courses in one area. Courses taken in the student's major may not be counted to satisfy this requirement.

GROUP V: ARTS AND HUMANITIES

Each student is required to complete one course in literature (American, English, or foreign), one course in the fine arts (art, music, theatre, television and film), and three additional courses from at least two of the following areas:

ART 101, art history; American, English, or foreign literature; music appreciation, music history, music literature; philosophy (except PHIL 103 used to apply to Group III); popular culture; drama, history of public address. It is recommended that philosophy be one of these areas. A list of courses approved for Group V requirements is available in the office of the College of Arts and Sciences. Courses taken in the student's major may not be counted to satisfy this group.

Bachelor of Arts: Majors and Minors

By the middle of the second year most students select a major and minor subject. The number of hours required for a major or minor varies with departmental requirements but at least 48 hours are required in the major and 30 hours in the minor except as indicated in the following sections. In arranging courses in the minor field, a student should consult the department concerned.

Outlines listed for each major represent the usual sequences, but may be modified upon departmental approval to meet individual needs.

INDIVIDUALIZED PLANNED PROGRAM OPTION

For the student whose educational objectives cannot be met by one of the departmental majors or minors or by one of the planned programs, the following option is available. The student may create an individualized planned program in consultation with a faculty adviser or advisers to substitute for the major or minor or both. A student who has earned at least 45 hours of credit and who needs at least 45 hours to complete the program may petition the Academic Appeals Board of the college by presenting a statement of rationale for an individualized planned program as well as a detailed list of courses to be taken. Upon approval, the student is obligated to complete the program as planned unless changes are approved by the Office of the Dean. The group requirements remain the same.

AFRO-AMERICAN STUDIES

113 Shatzel Hall, 372-2796

An interdepartmental and interdisciplinary planned program designed to provide a comprehensive study of the black man with particular attention given to the life and experience of the black American and his relationship to blacks throughout the world.

The program also provides opportunities for students who are majors in Afro-American Studies to undertake a planned program of studies for one year in a university in Africa. The student should consult with the adviser, Dr. Patricia W. Remington, before undertaking this program.

Major (60 hours)

30 hours in one of the following: ECON, ENG, HIST, POLS, PSYC, SOC, or speech communication

Seminar or independent study (16)
Electives selected in consultation with an adviser (14)

Minor (30 hours)

Course work selected by the student and the Department of Ethnic Studies and approved by the College of Arts and Sciences.

AMERICAN STUDIES

214 University Hall, 372-0110

Planned program — no minor required

An interdisciplinary program dedicated to the holistic study of American culture, society, and institutions, American studies offers individualized programs utilizing offerings of traditional departments of the humanities and social sciences which focus on the American experience. Courses designated as American studies develop the skills and methods appropriate to cultural studies and serve to integrate the substance of other disciplines into coherent patterns reflecting the complexity of American life and our national heritage. The director of American studies and the undergraduate adviser for the program assist students to design programs uniquely suited to their needs and interests within the general requirements of the program and the college.

The program requires 67 hours minimum including the following:

ART 441 and 442 (6)	ENG 303 and/or 304 and/or 305 (10)
HIST 205 and 206 (8)	PHIL 315 and 415 (8)
POLS 201, 301, 304, 331, 332, 341, 345, 346, 347, 416, 417, 418, 421, 422, 430, 432, 440 and/or 442 (8)	SOC 101 and SOC 231, 311, 315, 316, 413, or 418 (8) or GEOG 231, 325, 326, 333, 335, 351, 402, 425, 426, 430, 436, or 451 (8-9)
Concentration of 23 hours (including the basic courses) in ART, ENG, HIST, PHIL, POLS, SOC, or GEOG	Electives approved by American studies adviser

At least half of the 67 hours must be in 300- or 400-level courses. Prerequisites to courses identified as cognates in the American studies program are waived for students in the program at the discretion of the instructor and the student's adviser.

Other programs

Programs in American studies also are available through the College of Education.

ART

116 Fine Arts Building, 372-2786

Major (48 hours)

First year (18 hours)

ART 102, 103, 112, 113, 145, 146

Second year (24 hours)

ART 147, 205, 211, 261, 263, 277, 371, 373

Third and four years

Art history (3)

ART electives

Minor (30 hours)

First year (18 hours)

ART 102, 103, 112, 113, 145, 146

Second year (3)

ART 147

ART electives

Third and four years

Art history (3)

ART electives

Other programs

Bachelor of Fine Arts programs in art are offered by the School of Art in the College of Arts and Sciences. In addition, programs in art are available through the College of Education.

ART HISTORY

120 Fine Arts Building, 372-2786

Major (50 hours)

ART 102, 145, 146, 147 (12)
Studio electives (6)

Art history electives,
including one course in
each of the following areas:
classical, medieval,
renaissance, baroque,
modern, and oriental (30)

Minor (30 hours)

ART 102, 145, 146, 147 (12)
Art history electives (18)

Other programs

A major in art history leading to the Bachelor of Fine Arts degree is available through the School of Art of the College of Arts and Sciences.

ASIAN STUDIES

108 Williams Hall, 372-2196

Planned program

Through a multi-disciplinary approach, the Asian studies program is designed to provide students with:

- a broad view of Asia;
- an in-depth knowledge of a selected country, or region of Asia;
- an ability to comprehend an indigenous language.

Major (55 hours taken from a list of courses provided plus the completion of a 202-level Asian language course)

Minor (40 hours)

No Asian language required.

Student exchange program

A student may elect to study at a Japanese or a Korean university.

Other programs

A program in Asian studies also is available through the College of Education.

BUSINESS ADMINISTRATION

313 Business Administration Building, 372-0211

Major (52 hours)

First year (8 hours)

STAT 211 (4) MIS 200 (4)

Second year (20 hours)

ACCT 221 and 222 (8) ECON 202 and 203 (8)

STAT 212 (4)

Third year (16 hours)

ECON 303 or 311 (4) MKT 300 (4)

FIN 300 (4) MGMT 300 (4)

Fourth year (8 hours)

LEGS 301 (4) BA 405 (4)

Minor (36-40 hours)

First year (8 hours)

STAT 211 (4) MIS 200 (4)

Second year (12 hours)

ECON 202 and 203 (8) ACCT 221 (4) (ACCT 222 strongly recommended)

Third year (12 hours)

FIN 300 (4) MKT 300 (4)

MGMT 300 (4)

Fourth year (4 hours)

BA 403 or LEGS 301 (4)

Other programs

Programs in business administration also are offered through the College of Business Administration.

CLASSICAL STUDIES

227 Shatzel Hall, 372-0069

Major (37 hours)

PHIL 310 (4)

HIST 441 or 442 (4)

Two 400-level courses in Latin

At least 21 hours beyond LAT 202

LAT 351 (5)

Greek language courses recommended.

ART 444, 445, or 446 (3)

COMPUTER SCIENCE

207 Mathematical Sciences Building, 372-2337

Major (48 hours)

CS 101, 103, or CS elective (3-5)

MATH 131 and 231 (10)

MATH 232, 247 or 332

CS 104, 201, 202, 210, 305, 306, and 307 (29)

(4-5)

At least three other CS courses at the 400 level (10-12)

CS 350, 451, or 452 (4)

Students who complete MATH 451 or 452 are excused from taking the corresponding CS courses, but 48 hours of CS are still required for the major. The following courses may not be applied to the 48-hour major requirement: CS 100, 180, 260, 400, and 490.

Microcomputer Systems Specialization

A student may elect to specialize in microcomputer systems. Such a student should complete the Group III requirements with physics courses. The student should include CS 428 in the computer science major. In addition, the following courses must be taken:

PHYS 303, 429, 430 (digital electronics) (13)

MATH 232 or 332 (4-5)

No minor is required.

Minor (28 hours)

CS 101, 103, or CS elective CS 104, 201, and 202 (13)

(4-5)

CS electives (10-11)

The following courses may not be included in the 28-hour minor requirement: CS 100, 180, 260, 400, and 490.

Recommended electives

ACCT 221, ACCT 222, ENG 488, PHIL 303; it is recommended that the natural science requirement be completed by taking PHYS courses.

Other programs

A Bachelor of Science in computer science also is offered by the College of Arts and Sciences. In addition, programs in computer science are available through the College of Education. A program in management information systems is offered by the College of Business Administration.

ECONOMICS

309 Business Administration Building, 372-0080

Major (48 hours)

Second year

STAT 211 and 212 or

ECON 202 and 203 (8)

equivalent (not counted in hours required for major) (8)

Third year

ECON 302, 303, and 473 (12)

Fourth year

Minor (30 hours)

Second year

ECON 202 and 203 (8)

Third year

ECON 302 and 303 (8)

Fourth year

ECON electives (14)

Programs in economics also are available through the College of Business Administration and the College of Education.

5 Moseley Hall, 372-2576
Major (48 hours beyond ENG 112)

ENG 301 (4)	ENG 202, 203, 204, 205, or 206
ENG 201, 207, 208, 209,	(4)
251, 456, 483, and/or 488	
(8)	

ENG 262, 309, 400, 401,
402, 403, 406, 452, and/or
482 (8-9)

ENG 261, 303, 310, 404,
408, 410, 411, 415, and/or
453 (8-10)

ENG 263, 304, 311, 322,
416, 417, 418, 430, 435,
and/or 454 (8-10)

ENG 290, 305, 320, 323,
325, 330, 333, 335, 372,
380, 419, 420, 455, and/or
456 (8-10)

ENG 150, 200, 209, 291, 300, POPC 220
306, 307, 308, 324, 342, 343,
385, 407, 423, 442, 481, or
485

English majors with specific career goals, such as commercial or technical writing, legal studies, or linguistics, may, with the approval of the English adviser, work up a program of two relevant ENG courses which may be substituted for two required courses in groups II, III, IV, or V (no more than one substitution per group).

Group I
ENG 301 (4)
ENG 201, 207, 208, 209,
251, 456, 483, and/or 488
(8)

ENG 202, 203, 204, 205, or 206
(4)

ENG 262, 309, 401, 402,
403, 406, 452, or 482 (4-5)

ENG 261, 303, 310, 404, 408,
410, 411, 415, or 453
(4-5)

ENG 263, 304, 311, 322,
416, 417, 418, 430, 435, or
454 (4-5)

ENG 290, 305, 320, 323,
325, 330, 333, 335, 372, or
380 (4-5)

ENG 150, 200, 209, 291,
300, 306, 307, 308, 324,
342, 343, 385, 407, 423,
442, 481, or 485

Programs in English are also available through the College of Education. The College of Arts and Sciences also offers the Bachelor of Fine Arts degree with a major in creative writing.

GEOG 125, 126, 127, or 213 (4)
GEOG 225 or 230 (4-5)

GEOG 321 (4)
Electives (in consultation with adviser) (35-36)

It is possible for a student to specialize in such aspects of geography as urban, rural, and regional planning; delivery and planning of social services; cartography; economic geography; environmental resources; population; and others.

Minor (30 hours)

Other programs

Programs in geography also are offered by the College of Education.

GEOLOGY

64 Overman Hall, 372-2886

Major (40 hours above the 100 level including GEOL 493 or 494)

Minor (30 hours)

Other programs

The College of Arts and Sciences also offers Bachelor of Science programs in geology. The College of Education offers programs in earth science.

GERMAN

130 Shatzel Hall, 372-2269

Major (36 hours beyond GERM 202)

GERM 317, 318, and 417 GERM 260 and 360 do not
(12) count toward the major.

Electives in GERM at 400
level (6-8)

Minor (21 hours beyond GERM 202)

Other programs

Programs in German also are available through the College of Education.

HISTORY

204 Williams Hall, 372-2325

Major (48 hours)

16 hours chosen from the following:

HIST 101, 151, 152, 153, 205,
206, 207, 280

32 hours from the following with at least four hours at the
400 level chosen from each of the three categories:

European history

HIST 357, 363, 367, 377,
390, 415, 443, 444, 445,
446, 447, 448, 449, 450,
453, 457, 458, 459, 464,
466, 469, 470

U.S. history

HIST 301, 302, 303, 306,
307, 320, 323, 325, 326,
338, 402, 403, 405, 419,
420, 421, 422, 425, 426,
427, 428, 429, 430, 432,
433, 434, 435, 436, 437
438

Other

HIST 305, 309, 310, 313,
315, 316, 340, 382, 401,
411, 412, 413, 414, 441,
442, 462, 480, 481, 483

Minor (32 hours)

16 hours chosen from the following:

HIST 101, 151, 152, 153, 205,
206, 207, 280

16 hours at 300 or 400 level, with at least four hours at the
400 level chosen from two of the three categories indicated
above.

Other programs

Programs in history also are offered by the College of Education.

HOME ECONOMICS

206 Johnston Hall, 372-2026

Five programs are available through the Department of Home Economics. These include planned professional programs in fashion merchandising and interior design; major programs in food science and nutrition, and textiles and clothing; and a general home economics major with a concentration in foods and nutrition or textiles and clothing. No minor is required for the two planned professional programs. Fashion merchandising students may choose the option to study at the Fashion Institute of Technology, New York, for a year during the junior or

senior year. Programs must be planned with the adviser no later than the second year. After the second year students may participate in a supervised field experience during the summer or academic year. The following programs are available.

FASHION MERCHANDISING

206 Home Economics Building, 372-2026

This is a planned program designed to prepare students for careers in business and industry. These may include executive management positions; retail or wholesale merchandising; educational and/or sales representative for fabric, apparel, and accessory firms. No minor is required.

First year (17 hours)

ART 101 and 103 (6) HOEC 100, 101, and 103 (11)

Second year (25-30 hours)

ECON 202 (4) HOEC 202 and 204 (8)
PSYC 201 (5) HOEC 388 (2-5) (optional)
SOC 101 (4) SPCH 102 (4)

Third year (31 hours)

HOEC 303 and 313 (8) ACCT 325 (4)
Art history (3) HOEC 312 and/or HOEC 412,
MKT 300 and 340 (8) and/or HOEC 414 (8)

Fourth year (31 hours)

HOEC 401, 402, 403, and MKT 410, 430 and 436 (12)
404 (15)
BA 303 (4)

FOOD SCIENCE AND NUTRITION

413 Johnston Hall, 372-2026

A major program designed for the student who wishes to specialize in the food science field preparatory to graduate study or for a career in business or industry. A minor is required.

First year (15 hours)

CHEM 121, 122, and 123 (15)

Second year (33 hours)

CHEM 306, 308, and 309 (11) ECON 203 (4)
ECON 200 or 202 (4) HOEC 210 and 212 (9)
PSYC 201 (5)

Third year (20 hours)

HOEC 301, 307, 326, 327,
and 331 (20)

Fourth year (21 hours)

HOEC 405, 431, 432, 435,
and 436 (21)

Students interested in completion of requirements for membership in the American Dietetics Association should refer to the College of Education and College of Health and Community Services.

Students interested in restaurant management-institutional food service should refer to programs in the College of Education.

INTERIOR DESIGN

209 Home Economics Building, 372-2026

The interior design program trains students in the planning and executing of residential and contract interiors. Course work is designed to help students evaluate problems and devise solutions for them. Students who complete the approved four-year program are eligible to apply for membership in the American Society of Interior Designers (ASID).

First year (32 hours)

ART 102 and 103 (6) DESN 104 (4)
CS 100 (3) SOC 101 (4)
HOEC 103 and 219 (8) SPCH 102 (4)

Second year (22 hours)

ART 112, 147, and 213 (9) HOEC 388* (2-5)
HOEC 303 (4) CONS 235 (4)
ECON 202 (4) PSYC 201 (5)

*optional field experience

Third year (25 hours)

ACCT 325 (4) HOEC 319 and 333 (6)
ART 313 and 314 (6) DESN 301 (5)

Fourth year (38 hours)

ART 417 and 440 (6) HOEC 419 (8)
HOEC 417, 418, and 440 (12) MGMT 305 (4)
HOEC 490 (4) MKT 340 (4)

Select 12 hours from the following:

HOEC 105 (4) MKT 300 (4)
ACCT 325 (4) HOEC 406 (4)
BA 303 (4) MKT 410 or MKT 430 (4)
HOEC 313 (3)

Also see School of Art for specializations in graphic and environmental design and School of Technology for a specialization in product design.

TEXTILES AND CLOTHING

101 Home Economics Building, 372-2026

A major program designed for the student who wishes to specialize in the textiles and clothing field preparatory to graduate study or for a career in business and industry. A minor is required.

First year (14 hours)

HOEC 100, 101, 103, and 105

Second year (8 hours)

HOEC 202 and 207, or
HOEC 325

Third year (17 hours)

HOEC 301, 303, 312, 313, and
327

Fourth year (21 hours)

HOEC 401, 402, 403, 404, 412,
and 414

HOME ECONOMICS GENERAL

206 Johnston Hall, 372-2026

Major

A program designed for the student who desires a general home economics background with a concentration in foods and nutrition or textiles and clothing, or plans to continue in graduate school. A minor is required.

Core Courses (23 hours)

HOEC 103, 105, 205, 301,
303, 327

Foods and Nutrition Concentration (25 hours)

HOEC 206, 210, 212, 307,
324, 431

Textiles and Clothing Concentration (24-25 hours)

HOEC 100, 101, 202, 401, HOEC 207 or 325
and 404 HOEC 312 or 412

Minor (31 hours)

HOEC 103, 105, 205, 207,
303, 324, 325, and 327

Other programs

Programs in home economics also are available through the College of Education and the College of Health and Community Services.

INTERNATIONAL STUDIES

227 Williams Hall, 372-2921

Planned program

International studies is an interdisciplinary program for the undergraduate who wishes to pursue a concentrated course of study in preparation for research, teaching, or administrative specializations in the area of the Middle East, the Soviet Union, Eastern Europe, or Western Europe.

A student must specialize in one of these areas and complete 20 hours of basic courses — HIST 153, POLS 101, ECON 202, GEOG 230, and SOC 231 — together with 25 hours of courses in the area of specialization to be chosen in

consultation with the major adviser. To insure maximum exposure to the intellectual and literary traditions of the area of choice, the student must complete 9 hours of courses above the 202 level in an appropriate language — GERM, RUSN, or FREN. The student also is encouraged to take advantage of appropriate programs of study abroad sponsored by Bowling Green or other universities which can contribute to his/her familiarization with the major area of interest. An appropriate minor is chosen in consultation with the international studies adviser.

Other programs

Programs in Afro-American studies, Asian studies, Latin American studies, and Russian studies are also available through the College of Arts and Sciences. In addition, a program in international studies is available through the College of Education.

LATIN

227 Shatzel Hall, 372-0069

Major (32 hours beyond LAT 202)

LAT 480, 481, 485, and/or 486
(7)

Minor (20 hours beyond LAT 202)

Other programs

Programs in Latin also are offered through the College of Education.

LATIN AMERICAN STUDIES

202 Williams Hall, 372-2805

Planned program

An interdisciplinary planned program for those students who want to specialize in the Latin American area. The student takes 50 hours of courses in HIST, GEOG, POLS, SPAN, ECON, and SOC along with a Latin American studies senior seminar. The student's foreign language is Spanish and an appropriate minor is selected in consultation with the Latin American Studies adviser.

HIST 309, 310, 411, and 412 GEOG 348 and 349 (8)
(16) SPAN 368, 377, 378, 431, 432,
POLS 335, 456, and 477 (12) 481, 485, 486, 488, and/or
LAS 401 (4) 492 (12)

Other programs

A program in Latin American studies also is available through the College of Education.

MATHEMATICS

450 Mathematical Sciences Building, 372-2636

Basic requirements for the major and minor are listed below along with several recommended selections of electives for the major. These options provide an opportunity to plan a major which will be recognized as appropriate background for entry into the specific areas of application or graduate study.

Major (51 hours)

MATH 131, 231, 232, 233, 332,
and 339 (27)

Six courses* at the 300 or 400 level to total 51 hours including:

A:** MATH 403 or 432

B:** MATH 430 or 434 or 465

C: two courses from each of two groups below or three courses from one group:

MATH 401, 403, 404, 432 MATH 313, 315, 421, 422

MATH 337, 437, 439 MATH 430, 434, 461, 465

MATH 451, 452 MATH 441, 442, 443, 445

MATH 402, 405

Minor (31 hours)

MATH 131, 231, 232, 233, and Two electives at the 300 or
332 (23) 400 level* (8)

*except MATH 226, 395, 414, 415, 490, 495.

**may be modified in a planned program approved by an adviser and the department.

First year
MATH 131, 231, and 232 CS 101 and 104 recommended

Second year
MATH 233, 332, and 337 or 339 PHYS 131, 232, and 233 recommended

Recommended electives

Actuarial Science (Insurance) Option

MATH 226, 441, 442, 443, 451, 430, 432, 426 CS 101, 104, 440, 442
ACCT 221, 222, or 320

INS courses

Engineering and Physical Science Application Option

MATH 337, 430, 432, 434, 441, 452, 461 CS 101 and 104
PHYS 131, 232, 233 Two electives in physical science
MATH 437 or 439

Numerical and Statistical Application Option

MATH 337, 430, 432, 441, 442, 443, 451, 452 CS 101, 104, 440, 442
PHYS 131, 232, 233

Pregraduate Study in Mathematics, Statistics, Computer Science, and Operations Research

MATH 403, 430, 432 and 465 are basic to all graduate study in the mathematical sciences. The remaining electives should be chosen according to one's area of interest after consulting with a department adviser.

Other programs

A Bachelor of Science in mathematics also is offered by the College of Arts and Sciences. In addition, programs in mathematics are available through the College of Education.

MUSIC

Musical Arts Building, 372-2181

Major (56 hours)

MUCH 130, 132, and 232 (12)

MUCH 131, 134, 231, or 334 (4)

MUCH 125, 235, or 335 (4)

MUCH 142, 143, 241, 242, 243 (6)

Music academic electives (music history, theory, literature) (6)

Free music electives (4)

Minor (36 hours)

Music modules (16)

MUCH 142, 143, 241, (4)

Applied music (4)

Applied music (single instrument) (6)

Ensembles and/or functional piano (6)

Ensembles (4)

Music electives (excluding MUCH 101-103, 105-106, 221-223) (8)

The student is urged to select further music electives after consultation with an adviser from the College of Musical Arts. *Note:* The requirements for both the music major and minor are being revised. Please see the adviser in the College of Musical Arts for the revised program and list of courses.

Other programs

Degree programs in music also are offered through the College of Musical Arts.

PHILOSOPHY

221 Shatzel Hall, 372-2117

The Philosophy Department seeks to serve three kinds of students. (1) The student who is primarily interested in studying philosophy for its own sake. In addition to the core courses of the philosophy curriculum, this student may be interested in specialized courses such as PHIL 315, 317, 321, 322, 412, and 414. (2) The student who is taking philosophy primarily as preparation for a vocational goal outside of teaching. PHIL 210, 245, 318, 319, 327, 332, and 342 are courses which might interest this student. These students may obtain job experience with academic credit as interns during their senior year. (3) The student who takes philosophy along with a second major may choose from among a number of philosophy courses related to other disciplines, such as PHIL 204, 230, 331, 334, 418, 425, 431, and 432.

Major (48 hours)

At least three of the four courses in the history of philosophy (PHIL 310, 311, 312, and 313) and at least 12 hours of philosophy at the 400 level. All majors are encouraged to take PHIL 103 or PHIL 303.

Minor (30 hours)

At least two of the four courses in the history of philosophy (see above) and at least four hours of philosophy at the 400 level.

For the major or minor in philosophy, students are encouraged to take the history of philosophy courses not later than the junior year. Although not required, most students will probably want to begin their program by taking a course or two at the introductory level.

Other programs

Programs in philosophy also are offered through the College of Education.

POLITICAL SCIENCE

227 Williams Hall, 372-2921

Major (48 hours)

POLS 101, 201, and 290.

POLS 290 must be taken no later than the end of the junior year. A minimum of 32 hours of political science at the 300-400 level distributed among at least four areas of political science with a concentration in one is also required. When appropriate to the student's program, some courses may be counted as fulfilling area requirements other than the specialization under which they are listed. All students must consult with an adviser early in their pursuit of a major. Students with a strong background in political science may petition the department chair or the undergraduate adviser to have the POLS 101 or 201 requirement waived.

American government:

POLS 302, 331, 332, 333, 334, 335, 337, 341, 342, 345, 346, 347, 434, 436, 440, 442, 443, 444

Comparative government:

POLS 351, 354, 355, 361, 368, 453, 454, 456, 460, 470

International relations:

POLS 371, 372, 374, 461, 473, 475

Political theory:

POLS 301, 304, 402, 403, 404, 405, 452

Public administration:

POLS 330, 421, 422, 423, 430, 459

Public law:

POLS 416, 417, 418, 419, 424, 425

POLS 221 is a prerequisite for any of the 300- or 400-level courses in public administration. The beginning student is encouraged to take the following courses before beginning advanced courses in a particular area: POLS 201 for American government, POLS 250 for political theory, POLS 271 for international relations. Students opting for honors in political science must also take POLS 400, Honors Seminar in Contemporary Political Science, and write a senior thesis under the direction of a faculty adviser.

Minor (30 hours)

POLS at 100-200 level (8)

POLS at 300-400 level (22)

Other programs

Programs in political science also are available through the College of Education.

POPULAR CULTURE

Popular Culture Building, 372-2981

Planned program, no minor required

The Department of Popular Culture broadens the base of college education by utilizing the subject matter and methodologies of many disciplines, yet focusing on the dominant or "popular" culture of any period of time. The goal of the program is to provide a wide comprehensive approach to knowledge by utilizing as many intellectual tools as possible for a thorough understanding of the culture of a people, regardless of time or country. While studies of contemporary culture are certainly an important part of the popular culture program, historical material is emphasized as well.

The director and adviser direct the program and assist students in setting up schedules adapted to their special needs and interests and to the requirements of the college and the program.

Major (65 hours taken from courses within the Department of Popular Culture as well as the following departments/schools and courses:)

AMST 200, 300, 400	ART 440, 441, 442
ECON 361, 372, 459, 460, 471	CS 200
ENG 200, 251, 300, 303, 304, 305, 342, 343, 372, 385, 423, 485	EDFI 408
GEOG 230, 231, 325, 327, 333, 335, 426, 430, 451	HOEC 107, 401, 403, 407, 408
VCT 203, 208, 282, 433, 438, 460, 466, 467, 468	HIST 205, 206, 207, 280, 302, 303, 306, 307, 326, 377, 386, 402, 403, 405, 419, 420, 421, 422, 425, 426, 427, 428, 429, 434, 435, 448, 449, 459, 462, 464, 470, 481, 483, 486, 489
GERM 315, 316, 325	MKT 300, 402, 410, 411, 412, 450
JOUR 103, 105, 203, 306, 416, 423, 433, 435, 471	PHIL 207, 333, 335
MUCH 401, 417, 420, 431, 432, 433	SSM 425
POLS 341, 342, 432, 434, 443	PSYC 306, 307, 311
FREN 211, 212, 371, 372	ITAL 371
LAT 480, 481	SPAN 211, 212
RUSN 415, 432	SOC 101, 210, 301, 311, 312, 314, 315, 316, 317, 318, 342, 352, 361, 403, 404, 413, 415, 416, 417, 418
SOC 231, 331, 334	THEA 350, 353
RTVF 255, 260, 264, 360, 460, 465, 466	

No more than 15 credits may be taken in any department other than popular culture. The student is expected to take as many courses in as many different departments/schools as feasible while at the same time completing course requirements for the program.

Minor (30 hours taken from courses within the Department of Popular Culture as well as the above departments/schools and courses)

PSYCHOLOGY

309 Psychology Building, 372-2301

Major (45 hours in psychology and a minor or 36 hours in cognate fields)

A psychology major may minor in any department in which arts and sciences credit is given. A student who elects a cognate minor should select courses from at least three of the following fields in addition to the arts and sciences group requirements: BIOL, CHEM, CS, ECON, MATH, PHIL, PHYS, SOC.

First year

PSYC 201 and 270 (9)

Second year

PSYC 271 and 290 (8)

Third year

At least two 300-level laboratory courses PSYC electives

Fourth year

At least 15 hours of 400-level courses PSYC electives

Minor (30 hours in PSYC)

Other programs

The Bachelor of Arts program in psychology is primarily designed for the student interested in psychology as the focus of a liberal education. There is also a Bachelor of Science program in psychology offered by the College of Arts and Sciences which is designed for the student who is preparing for graduate study. Other programs in psychology are available through the College of Education.

RUSSIAN

28 Shatzel Hall, 372-2369

Major (30 hours beyond RUSN 202 (or equivalent) and including RUSN 317, 318, and 319)

Minor (18 hours beyond RUSN 202)

Other programs

Programs in Russian also are offered by the College of Education.

RUSSIAN STUDIES

241 Williams Hall, 372-2921

Planned program

Russian studies is an interdisciplinary program which examines Russian and Soviet society, politics, and culture. The program aims to develop reading and conversational skills in the Russian language and a knowledge of Russian and Soviet society. The student selects either a humanities or social science option and completes courses in six areas: preparatory studies, language studies, concentrated studies, supporting studies, integrative studies, and applied studies.

Preparatory studies (18-24 hours from the following:)

AERO 201	THEA 141
ECON 202, 203	STAT 211
GEOG 121	ART 101, 102
HIST 151, 152, 153, 205, 206, 280	ENG 200, 262
PHIL 101, 204, 230	POLS 101, 290
PSYC 201	MIS 200
SOC 101, 231	SPCH 102
	IPCO 203

Many of these courses will also partially fill a student's general education group requirements.

Language studies

At least nine hours of Russian language beyond RUSN 202. The student is urged to take RUSN 317 and 318 (composition and conversation) if graduate study or study abroad is contemplated.

Concentrated studies (26-36 hours in at least three, and preferably four, of the following disciplines: ECON, GEOG, HIST, POLS, RUSN)

ECON 474	POLS 354, 453, 454, 470, 490
GEOG 341, 342	RUSN 311, 312, 313, 315, 317, 318, 319, 331, 401, 402, 403, 417, 431, 432, 480
HIST 469, 470, 471, 490, 491, 495	

Supporting studies (12-22 hours in one or two of the following disciplines:)

ART 455, 456, 457	SOC 301, 302, 317, 331, 352, 361, 369, 370
ECON 351, 372	IPCO 303
FREN 371, 372	RTVF 464
GEOL 421	BA 390
HIST 438, 444, 448, 449, 453, 454, 483, 486, 491, 497, 552, 562	ENG 322, 419
JOUR 435	GEOG 452
MGMT 360	GERM 315
PHIL 312, 325, 418, 432	L&EM 404
POLS 301, 361, 371, 460, 470, 471, 473, 475	MUCH 101, 102, 103, 221, 222, 223
Independent study	PSYC 311, 312
	THEA 348

The above courses are suggested; the adviser may approve others.

Integrative studies (4-8 hours of seminar, colloquium, or independent study)

Applied studies

These place the student in contact with practical situations, such as serving as a Russian language guide or working in a Slavic-language research center during the summer.

Opportunities may be arranged for study or travel in the USSR.

SOCIOLOGY

45 Williams Hall, 372-2294

Major (48 hours)

SOC 101, 369, and 370	SOC 302 or 303
	SOC electives

PSYC 270 and 271; or STAT 211 or 212; or MATH 441 and 442 will be accepted as meeting the requirements for SOC 369.

Students who anticipate further study in sociology are strongly advised to consider SOC 303 and 480 in addition to required courses.

Electives are generally chosen to serve student interests. Students should consult the department adviser as needed. In a special case where the needs of the student require it, a limited substitution of courses in related behavioral science departments may be permitted in the major requirements.

Minor (30 hours)

Other programs

A program in sociology also is offered through the College of Education.

SPANISH

243 Shatzel Hall, 372-2667

Major (40 hours beyond SPAN 202)

SPAN 351, 352, 360, 367, 368, and 371
SPAN 377 or 378

Electives including a minimum of four 400-level courses

Minor (30 hours beyond SPAN 202)

SPAN 351, 352, 360, 367, 368, and 371
SPAN 377 or 378

Electives to include two 400-level courses

Other programs

Programs in Spanish also are available through the College of Education.

SPEECH COMMUNICATION

The Bachelor of Arts in speech communication offers five concentrations: radio-television-film, interpersonal and public communication, theatre, communication disorders, and a transdisciplinary program.

COMMUNICATION DISORDERS

327 South Hall, 372-2223

Major (66 hours)

First year (16 hours)

IPCO 305 or 306 (4)
SPCH 102 (4)

CDIS 223 and 226 (8)

Second year (32 hours)

THEA 202 (4)
CDIS 324, 330, and 333 (12)
IPCO 203 (4)
PSYC 201, 270, and 305 (12)

Third year (20 hours)

CDIS 325, 328, 331, 332, and 422 (20)

Fourth year (10-12 hours)

CDIS 424, 426, and 433 (10-12)

Minor (44 hours)

First year (4 hours)

SPCH 102 (4)

Second year (24 hours)

CDIS 223, 226 and 333 (12) PSYC 201, 270 and 305 (12)

Third year (20 hours)

CDIS 324, 325, 330, 331, and 332 (20)

Fourth year (8 hours)

CDIS 328 and 433 (8)

INTERPERSONAL AND PUBLIC COMMUNICATION

303 South Hall, 372-0031 or 372-2823

Major (56 hours)

SPCH 102 (4)
RTVF 260 (4)
CDIS 223 (4)

THEA 141 (4)
IPCO 305 (4)
IPCO electives (36)

Minor (36 hours)

SPCH 102 (4)
IPCO 305 (4)
IPCO electives (24)

THEA 141 or CDIS 223 or RTVF 260 (4)

RADIO-TELEVISION FILM

420 South Hall, 372-2138

Major (56 hours)

SPCH 102 (4)
RTVF 260, 262, 263, 364, 460, 464, 465 and 466 (32)
CDIS 223 (4)

THEA 252 (4)
IPCO 305 (4)
Electives (8)

Minor (36 hours)

IPCO 305 (4)
SPCH 102 (4)
RTVF 460, 465, or 466 (4)
Electives (4)

RTVF 260, 262, 263, and 464 (16)
THEA 141 or CDIS 223 or IPCO 306 (4)

THEATRE

312 South Hall, 372-2350

Major (56 hours)

SPCH 102 (4)
RTVF 260 (4)
CDIS 223 (4)
THEA 347 or 348 (3)

THEA 145, 202, 241, 243, and 341 (19)
IPCO 305 (4)
THEA electives (18)

Minor (36 hours)

IPCO 305 (4)
SPCH 102 (4)
THEA electives (24)

CDIS 223 or RTVF 260 or IPCO 306 (4)

TRANSDISCIPLINARY MAJOR

301 South Hall, 372-2350

Major (56 hours)

SPCH 102 (4)
RTVF 260 (4)
CDIS 223 (4)
THEA 141 and 202 (8)
IPCO 305 (4)

Electives concentrated in at least two program units of the School of Speech Communication (32)

Minor (36 hours)

IPCO 305 (4)
SPCH 102 (4)
THEA 141 or CDIS 223 or RTVF 260 (4)

Electives in at least two program units of the School of Speech Communication (24)

Other programs

Programs leading to the Bachelor of Arts in Communication degree also are offered by the College of Arts and Sciences through the School of Speech Communication. Additional programs in speech and speech and hearing therapy are available through the College of Education.

STATISTICS

450 Mathematical Sciences Building, 372-2636

This major should be combined with a minor or major in an area of application or technique, such as psychology, science, computer science, or business.

Major (51 hours)

MATH 131, 231, 232, 233, 332, 441, 442, and 443 (35)

MATH 430 or 465 (4)

Three courses from the following, with at least two from STAT:

MATH 432, 445, 451, 461
CS 440, 442

STAT 302, 402, 404, 406, 408, 410, 412

Other programs

The College of Arts and Sciences also offers a program in statistics leading to the Bachelor of Science degree. A program in statistics is also offered by the College of Business Administration.

WOMEN'S STUDIES

222 Administration Building, 372-2620

Planned program.

Women's studies is an interdepartmental and interdisciplinary planned program designed to help students understand crucial issues in their lives and to help prepare them for a variety of careers. Women's studies is a generic term for all types of research, analysis, and speculation designed to recover women's experience in the past, examine their experience in the present, and chart directions for their future in society. It embraces both the endeavor to find out what is not known and the endeavor to evaluate what is believed — about the achievements of women individually and collectively, about the roles women do and might perform, about the nature of women and the ways it has been imagined in our own and other cultures.

All major and minor programs are individually planned by the student and the director, in consultation with an adviser from the area of concentration.

Major (60 hours minimum)

Eight courses from at least six departments, chosen from the following:

BA 300	EDFI 460
ENG 200 (women's topics) and 423	FREN 260 (women's topics)
IST 326	HOEC 302
PCO 406 (women's topics)	PHIL 245
POPC 230 and 460 (women's topics)	POLS 434
PSYC 306 and 307	SOC 300 (women's topics), 361, and 460
SSM 425	

A 24-hour concentration in one of the arts and sciences departments listed above;
WS 200 and 400

Minor (22 hours of course work in women's studies and WS 200 and 400)

BACHELOR OF SCIENCE DEGREE

Each student must complete the group requirements listed below as nearly as possible in the freshman and sophomore years and must satisfy the requirements for a major and minor area of specialization as outlined below. Every student, however, must take English and physical education in the first year. If known, the major or minor may be started in the first year, but final selection of the major may be made as late as the junior year.

The student must satisfy the requirements for a major area of specialization in biological sciences, chemistry, computer science, geology, mathematics, physics, psychology, or statistics and a minor area of specialization as outlined below.

GENERAL EDUCATION GROUP REQUIREMENTS**GROUP I: COMMUNICATION**

Each student is required to complete ENG 112 or to demonstrate by examination that he/she has a proficiency in written expression equivalent to that attained by the student who completes that course. SPCH 102 is recommended for each student.

GROUP II: FOREIGN LANGUAGE AND CULTURAL EXPERIENCE

Each student is required to demonstrate a proficiency in a language and language area as stipulated in the options listed below by:

1. having been graduated from a high school where all instruction was conducted in a language other than English; or
2. passing a proficiency examination in the language on the 202 course level; or
3. having completed four years of one language on the 202 course level; or
4. having completed one of the departmental options listed below (20 hours minimum in same language area, or fewer by advanced placement).

German, Japanese, Russian

Completion of GERM 101, 102, and 103 plus a minimum of eight additional hours from: GERM 100, 117, 118, 119, 201, 202, 217, 231, 331, and/or GERM 260, 315, 316; or

Completion of JAPN 101, 102, 103, 201, and 202; or

Completion of RUSN 101, 102, and 103 plus a minimum of eight additional hours from: RUSN 100, 201, 202, 303, 315, 316, 317, 319, 331, and/or RUSN 311, 312, 313.

Romance languages (French, Italian, Latin, Spanish)**Option I**

FREN 101, 102, 103, 201, and 202; or

ITAL 101, 102, 103, 201, and 202; or

LAT 101, 102, 103, 201, and 202; or

SPAN 101, 102, 103, 201, and 202.

Option II: One of the following:

FREN 111, 112, 113, 211, and 212;

LAT 101, 102, and 103 and two of: LAT 141, and/or 142 and/or, 201;

SPAN 111, 112, 113, 211, and 212.

A student may transfer at any point from option I to option II but not vice versa. If a student selects option II, he/she must complete all courses in that sequence subsequent to the first course in which he/she is placed. Course 202 is required for admission to 300-level courses.

GROUP III: MATHEMATICS AND SCIENCES: BIOLOGICAL SCIENCES, CHEMISTRY, COMPUTER SCIENCE, GEOLOGY, MATHEMATICS AND STATISTICS, PHYSICS, PSYCHOLOGY

A student is required to complete a minimum of 65 hours of credit, including:

1. a major in biological sciences, chemistry, computer science, geology, mathematics, physics, psychology, or statistics;
2. a minimum proficiency in mathematics equivalent to MATH 131;*
3. a laboratory sequence in one of the sciences. (A list of approved courses is available in the office of the College of Arts and Sciences.)

Certain science courses numbered 100 do not apply toward a student's degree requirements if he/she also has credit for the introductory laboratory course in the same science. See departmental listings in the course descriptions for specific applications.

GROUP IV: SOCIAL SCIENCES: ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY

Each student is required to complete four courses in one or more of these areas. A student who includes psychology courses in Group III may not include psychology courses in this group. Courses taken in the student's major may not be counted to satisfy this group.

GROUP V: ARTS AND HUMANITIES

Each student is required to complete one course in literature (American, English, or foreign), one course in the fine arts (art, music, theatre, television and film), and two additional courses from the following areas: ART 101, art history; American, English, or foreign literature; music appreciation, music history, music literature; philosophy; popular culture; drama, history of public address. It is recommended that philosophy be one of these areas. A list of courses approved for general education Group V requirements is available in the office of the College of Arts and Sciences. Courses taken in the student's major may not be counted to satisfy this group.

Bachelor of Science: Majors and Minors

By the middle of the second year most students select a major and minor subject. The number of hours required for a major or minor varies with departmental requirements but is at least 48 hours in the major and 30 hours in the minor except as indicated in the following sections. In arranging courses in the minor field, a student should consult the department concerned.

These outlines represent the usual sequences, but you may modify these upon departmental approval to meet individual needs.

INDIVIDUALIZED PLANNED PROGRAM OPTION

For the student whose educational objectives cannot be met by one of the departmental majors or minors or by one of the planned programs, the following option is available. The student may create an individualized planned program in consultation with a faculty adviser or advisers to substitute for the major or minor or both. A student who has earned at least 45 hours of credit and who needs at least 45 hours to complete the program may petition the Academic Appeals Board of the college by presenting a statement of rationale for an individualized planned program as well as a detailed list of courses to be taken. Upon approval, the student is obligated to complete the program as planned unless changes are approved by the Office of the Dean. The group requirements remain the same.

*See MATH course descriptions for placement in MATH 130/131, or Math Department for placement test.

BIOLOGICAL SCIENCES

431 Life Sciences Building, 372-0206

Major (48 hours)

First and second years

BIOL 201, 202, and 203 (15) CHEM 121, 122, and 123 (15)

300-level BIOL courses as required for the student's program.

Third and fourth years

One course in organic chemistry (CHEM 306 or CHEM 343, 344, and 345) (5-14)

MATH through MATH 131 or equivalent
PHYS 214 and 215 (PHYS 216 optional) (10-15)

At least one course in biochemistry is strongly recommended

A minimum of 15 hours at the 400-level and electives in BIOL

At least one course in each of the following groups:

Group 1: Biology of Organisms

BIOL 220, 313, 322, 331, 332, 343, 405, 406, 409, 410, 414, 415, 416, 421, 424, 426, 431, 432, 433, 434, 435, 440, 472, 473, 474, 475, 476, 477

Group 3: Genetics and Evolution

BIOL 350, 447, 451

Group 4: Cell Biology and Physiology

BIOL 407, 408, 411, 413, 417, 418, 436, 438, 439, 443, 446

Group 2: Ecology and Behavior

BIOL 321, 354, 412, 420, 422, 425

Minor (30 hours)

First and second years

BIOL 201, 202, and 203 (15)
CHEM 121, 122, and 123, or equivalent (15)

Third and fourth years

Electives in BIOL (15)

MICROBIOLOGY

536 Life Sciences Building, 372-2731

BIOL 201, 202, 203, and 313 (20) CHEM 121, 122, 123, and 201 (20); or CHEM 131, 132, and 133 (15)

CHEM 343, 344, and 345 (14)

MATH equivalent to MATH 131 CHEM 308 and 309, or CHEM 445 and 447 (5-6)

PHYS 214, 215, and 216 (15)

BIOL 490 (seminars in microbiology) and BIOL 470 as approved by adviser

A minimum of 28 hours to be selected from the following:

BIOL 405, 406, 407, 409, 410, 421, 424, 426, 436, 439, 443.

Other programs

Programs in biology also are offered through the College of Education. A program in applied microbiology is available through the College of Health and Community Services.

CHEMISTRY

110 Hayes Hall, 372-2031

Major (48 hours)

A chemistry major may follow several programs of study depending on career aspirations. All chemistry majors must take the following:

CHEM 121, 122, 123, and 201 (20); or CHEM 131, 132, and 133 (15) CHEM 321 and/or 450 and/or 451 (8-9)

CHEM 343, 344, and 345 (14) CHEM 352, or CHEM 431 and 432 (5)

PHYS 215, 216, or 233 (233 is preferred) should be taken by the end of the second year (5).

GERM or RUSN should be selected as the foreign language. MATH 232 should be completed by the end of the second year, except in the least rigorous major.

CHEM 313, 395, 413, and 483 may not be included in the 48 hours.

The following program will meet American Chemical Society professional training standards and is the recommended program for students who plan professional careers in science.

First year

CHEM 121, 122, and 123 (15); or CHEM 131, 132, and 133 (15) MATH 131 and 231 (10)

Second year

CHEM 201 (for those having taken CHEM 123) (5) CHEM 343, 344, and 345 (14)
PHYS 131, 232, and 233 (15) MATH 232 and 233 (9)

Third year

CHEM 431, 432, 433, 434, and 435 (14-15) Additional courses chosen from CHEM 413 (highly recommended), 436, and 441 (5-8)

Fourth year

400-level courses including the following:

CHEM 450 (5) CHEM 460 and 461 (7), or
MATH 332 or PHYS 441 (4) CHEM 445 and 447 (8)

Additional recommended courses include CHEM 440 and 451 (8). The additional third- and fourth-year courses need to total a minimum of 9 credit hours of lecture and 6 credit hours of laboratory (CHEM 413 is considered a laboratory credit to a maximum of 3 hours toward the 6 hours of laboratory).

A student who wishes a more limited major but one that is still adequate for advanced study or professional work in chemistry follows the same schedule during the first three years as given above.

Fourth year

CHEM 450 or CHEM 451 (or, less desirably, CHEM 321) Electives from 400-level CHEM (4-5)

This program also gives excellent preparation for premedical students and other preprofessionals who anticipate possible research careers.

The least rigorous major is useful for certain pre-professional (predental or premedical) programs or for preparation for limited positions in industry or government.

First year

CHEM 121, 122, and 123 (15); or CHEM 131, 132, and 133 (15) MATH 130 and 131 (10)

Second year

CHEM 201 (for those having taken CHEM 123) (5) PHYS 215 and 216 (10) or
CHEM 343, 344, and 345 (14) PHYS 233 (5)

Third and fourth years

CHEM 352, or CHEM 431 and 432 (5) CHEM 321 or 450 (4-5)

Approved CHEM courses to a minimum of 48 hours; at least one CHEM course must be 400 level (not CHEM 413)

A chemistry major specializing in biochemistry may find it desirable to take BIOL 201, 202, and 203 and selected courses in physiology, bacteriology, immunology, or advanced genetics.

The student is urged to seek advice from departmental advisers at the chemistry office before planning his/her academic program, and at regular intervals thereafter. Detailed supplements to this publication are available in the chemistry office which describe courses, programs (including graduate), and professional requirements.

Minor (30 hours)

First year

CHEM 121, 122, and 123 (15); or CHEM 131, 132, and 133 (15)

Second year

CHEM 201 (for those having taken CHEM 123) (5) CHEM electives

Third and fourth years

CHEM electives

CHEM 313, 395, 413, and 483 cannot count toward the 30 hours required.

Other programs

Programs in chemistry also are offered by the College of Education.

COMPUTER SCIENCE

207 Mathematical Sciences Building, 372-2337

Major (48 hours)

CS 101 or 103, or CS elective (3-5) MATH 131 and 231 (10)
MATH 232, 247, or 332 (4-5)
CS 104, 201, 202, 210, 305, 306, and 307 (29) At least three other CS courses at the 400 level (10-12)
CS 350, 451, or 452 (4)

Students who complete MATH 451 or 452 are excused from taking the corresponding CS courses, but 48 hours of CS are still required for the major. The following courses may not be applied to the 48-hour major requirement: CS 100, 180, 260, 400, 490.

Business Systems Specialization

A student with an interest in the application of computer science to business systems may take ECON 202 and 203 as part of the group IV requirement and may also wish to consider the following electives: ACCT 221 and 222, MIS 471 and 472, FIN 300, MGMT 300 and 305, and MKT 300.

Microcomputer Systems Specialization

A computer science major may choose to specialize in microcomputer systems. For this program, no minor is required. The student should complete the Group III requirements with physics courses. The student should include CS 428 in the computer science major. In addition, the following courses must be taken: PHYS 303, 429, 430 (digital electronics) (13), and MATH 232 or 332 (4-5).

Minor (28 hours)

CS 101 or 103, or CS elective (4-5) CS 104, 201, and 202 (13)
CS electives (10-11)

The following courses may not be included in the 28-hour minor requirement: CS 100, 180, 260, 400, 490.

Recommended electives

ACCT 221, ACCT 222, ENG 488, PHIL 303 and also that the natural science requirement be completed by taking PHYS courses.

Other programs

A Bachelor of Arts in computer science also is offered by the College of Arts and Sciences. In addition, programs in computer science are available through the College of Education. A program in management information systems is offered by the College of Business Administration.

ENVIRONMENTAL STUDIES

124 Hayes Hall, 372-0207

Planned program, no minor required

Close consultation with the staff of the Center for Environmental Programs is essential in this program. Some courses or sequences are specified:

ENVS 101 and 301 (5)	PHYS sequence (depending on whether student has additional disciplinary minor)
BIOL 201, 202, 203, 321, and 322 (23)	GEOL 103 (4)
CHEM 121, 122, 123, and 306 (20)	SOC 101 and two additional SOC courses
ENVS 401 or 402 (3)	ECON 200 or 201 (4)
IPCO 203 (4)	POLS 331, 332, 335, or 430 (4)
MATH 131 (5)	GEOL 421 or ENVR 421 (4)
HED 110 (2)	ENVS 404 (4)
CS and/or STAT (total of two courses)	

An internship is recommended. See Center for Environmental Programs or the college office for a list of suggested electives.

Other programs

Environmental programs also are offered by the College of Education and the College of Health and Community Services. Students should contact the staff of the Center for Environmental Programs, 124 Hayes Hall, regarding the selection of a program that will meet their goals.

GEOLOGY

64 Overman Hall, 372-2886

Major (40 hours above 100-level)

GEOL 302, 303, 307, 308, 309, 311, 312, 320, 321, 412, (40)	MATH 131 (5) CHEM 121, 122, and 123 (15); or CHEM 131 and 132 (10) PHYS 214 (5)
GEOL 494 (or the equivalent in geology field work with the approval of the undergraduate committee of the department (5-9))	

GEOCHEMISTRY

A student may elect to specialize in geochemistry. Such a student should take the following courses:

GEOL 307, 308, 309, 311, 312, 431, 494 (32)	CHEM 121, 122, 123, and 201 (20); or CHEM 131, 132 and 133 (15)
GEOL 320 or 321 (4)	CHEM 306, 431, 432, 434, 435, and 436 (20); or CHEM 352, 343, 344, and 345 (20)
PHYS 131, 232, and 233 (15)	
MATH 131, 231, and 232 (15)	

No minor is required.

GEOPHYSICS

A student may elect to specialize in geophysics. Such a student should take the following courses:

PHYS 131, 232, 233, 234	GEOL 307, 308, 309, 311, 393, 412, 432, 494 (32-35)
plus a minimum of four additional hours of upper-level courses (24)	CHEM 121, 122, and 123 (15); or CHEM 131 and 132 (10)
GEOL 320 or 321 (4)	CS 101 (5)
MATH 131, 231, 232, and 233 (19)	

No minor is required.

PALEOBIOLOGY

A student may elect to specialize in paleobiology. Such a student is required to take the following courses:

GEOL 302, 303, 307, 308, 311, 412, 419, 433, 472, 496 (37-46)	GEOL 490 (approved senior research problem)
CHEM 121 or 131 (5), and CHEM 122 or 132 (5)	BIOL 201, 202, 203, and a minimum of two additional BIOL courses

One course in statistics (4-5)

Electives in geology and biological sciences will be recommended on an individual basis. No minor is required.

Minor (30 hours)

Other programs

A program in geology leading to the Bachelor of Arts also is offered by the College of Arts and Sciences.

MATHEMATICS

450 Mathematical Sciences Building, 372-2636

Basic requirements for the major and minor are listed below along with several recommended selections of electives for the major. These options provide an opportunity to plan a major which will be recognized as an appropriate background for entry into specific areas of application or graduate study.

Major (51 hours)

MATH 131, 231, 232, 233, 332, and 339 (27)

Six courses* at the 300 or 400 level to total 51 hours

including:

A:** MATH 403 or MATH 432

B:** MATH 430 or MATH 434 or MATH 465

C: two courses from each of two groups below or three courses from one group:

MATH 401, 403, 404, 432 MATH 313, 315, 421, 422

MATH 337, 437, 439 MATH 430, 434, 461, 465

MATH 451, 452 MATH 441, 442, 443, 445

MATH 402, 405

Minor (31 hours)

First Year

MATH 131, 231, and 232 CS 101 and 104
recommended

Second Year

MATH 233 and 332; and PHYS 131, 232, and 233
MATH 337 or 339 recommended

Recommended Electives

Actuarial Science (Insurance) Option

MATH 226, 426, 430, 432, CS 101, 104, 440, 442

441, 442, 443, 451 ACCT 221, 222, or 320

INS courses

Engineering and Physical Science Application Option

MATH 337, 430, 432, 434, CS 101 and 104

441, 452, 461 Two electives in physical

PHYS 131, 232, 233 science

MATH 437 or 439

Numerical and Statistical Application Option

MATH 337, 430, 432, 441, CS 101, 104, 440, 442

442, 443, 451, 452 PHYS 131, 232, 233

Pregraduate Study in Mathematics, Statistics, Computer Science, and Operations Research

MATH 403, 430, 432, and 465 are basic to all graduate study in the mathematical sciences. The remaining electives should be chosen according to one's area of interest after consulting with a department adviser.

Other programs

A Bachelor of Arts in mathematics also is offered by the College of Arts and Sciences. In addition, programs in mathematics are available through the College of Education.

PHYSICS

270 E Overman Hall, 372-2422

Major (48 hours)

PHYS 313 (3) and PHYS PHYS 131, 232, 233, and
413 (3) 334 (20)

300- and 400-level courses PHYS 303 or 418 (4-5)
in PHYS (17-18)

It is recommended that a student majoring or minoring in physics take the following:

CHEM 121, 122, and 123 DESN 104 (4)
(15); or CHEM 131, 132, MATH 332 (by the end of the
and 133 (15) second year) (4)

For students expecting to continue to graduate school, the following are recommended:

PHYS 303, 416, 417, 418, 419, PHYS 413 (at least 3)
441, and 442 (29)

Microcomputer Systems Specialization

A student may elect to specialize in microcomputer systems. This student should include PHYS 303, 429, and 430 (digital electronics) in the physics major. In addition, the following courses must be taken:

CS 101 or 103 (4-5)

CS 104, 201, 202, 210, 307, and 428 (24)

MATH 131 and 231 (10)

MATH 232 or 332 (4-5)

No minor is required.

Minor (34 hours)

PHYS 131, 232, 233, and 334 300- or 400-level courses in
(20) PHYS (12)

PHYS 313 (3)

Other programs

Programs in physics also are available through the College of Education.

PSYCHOLOGY

259 Psychology Building, 372-2301

Major (45 hours in PSYC and either 36 hours in cognate fields or a minor in a second department. The 36 hours in cognate fields should be selected from at least three of the following fields: BIOL, CHEM, CS, ECON, MATH, PHYS, SOC, PHIL.)

Note: The Psychology Department departs from the arts and sciences group requirements in the following aspects: *Group III (science and mathematics)*: a minimum of 65 hours must be completed in two or more of the following fields: BIOL, CHEM, CS, GEOL, MATH, PHYS, PSYC. No more than 36 hours of PSYC may be applied to this group. Each student must demonstrate proficiency equivalent to completion of MATH 232. Additional preparation in MATH is advisable for the student planning to take advanced graduate work in psychology. Particularly recommended are MATH 233, 332, 337, 403, 404, 430, 432, 434, 441, 442, 443, 465, 466. *Group IV (social sciences)* PSYC courses may not be applied. *Group V (humanities)*: courses in logic and the philosophy of science are recommended.

First year

PSYC 201 and 270 (9)

Second year

PSYC 271 and 290 (8) 300-level PSYC laboratory
course

Third year

Two additional 300-level PSYC 470
PSYC laboratory courses Electives

Fourth year

At least four 400-level PSYC PSYC electives
courses

Minor (30 hours)

Other programs

The Bachelor of Science program in psychology is designed for the student who is preparing for graduate study. There is also a Bachelor of Arts program in psychology offered by the College of Arts and Sciences primarily designed for the student interested in psychology as the focus of a liberal education. Other programs in psychology are available through the College of Education.

STATISTICS

450 Mathematical Sciences Building, 372-2636

This major should be combined with a minor or major in an area of application or technique, such as psychology, science, computer science, or business.

Major (51 hours)

MATH 131, 231, 232, 233, 332, MATH 430 or 465 (4)
441, 442, and 443 (35)

Three courses from the following, with at least two from STAT:

MATH 432, 445, 451, 461 STAT 302, 402, 404, 406,
CS 440, 442 408, 410, 412

Other programs

The College of Arts and Sciences also offers a program in statistics leading to the Bachelor of Arts degree. A program in statistics is also offered by the College of Business Administration.

*except MATH 226, 395, 414, 415, 490, 495.

**may be modified in a planned program approved by an adviser and the department.

BACHELOR OF LIBERAL STUDIES DEGREE

205 Administration Building, 372-2015

To be eligible for admission to the Bachelor of Liberal Studies degree program, a student must have completed at least 45 hours of credit with a 2.0 accumulative grade point average. Applications for admissions are available in the college office and must be returned to the liberal studies adviser within the first seven calendar days of the quarter in which admission is desired.

To obtain this degree the student must satisfy the general requirements listed on page 7 and complete in residence at least 45 hours of credit immediately preceding graduation after having been admitted to the program.

Thirty hours credit of non arts and sciences courses may be included in the degree program. (A list of approved non arts and sciences courses is available in the college office.) No more than 40 hours of credit in any one department may be counted toward the degree.

BACHELOR OF FINE ARTS DEGREE

103 Hanna Hall, 372-0379

Each student must complete the group requirements listed below as nearly as possible in the freshman and sophomore years and must satisfy the requirements for a major in creative writing and a minor in an area of specialization.

GENERAL EDUCATION GROUP REQUIREMENTS

GROUP I: ENGLISH COMPOSITION

Each student is required to complete ENG 112 or demonstrate by examination a proficiency in written expression equivalent to that attained by the student who completes that course.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

Each student is required to demonstrate a proficiency in a language and language area as stipulated in the options listed below by:

1. having been graduated from a high school where all instruction was conducted in a language other than English; or
2. passing a proficiency examination in the language on the 202 course level; or
3. having completed four years of one language in high school; or
4. having completed one of the departmental options listed below (20 hours minimum in same language area, or fewer by advanced placement).

German, Japanese, Russian

Completion of GERM 101, 102, and 103 plus a minimum of eight additional hours from: GERM 100, 117, 118, 119, 201, 202, 217, 231, 331; and/or GERM 260, 315, 316; or

Completion of JAPN 101, 102, 103, 201, and 202; or

Completion of RUSN 101, 102, and 103, plus a minimum of eight additional hours from RUSN 100, 201, 202, 303, 315, 316, 317, 319, 331, and/or RUSN 311, 312, 313.

Romance Languages (French, Italian, Latin, Spanish)

Option I

FREN 101, 102, 103, 201, and 202; or
ITAL 101, 102, 103, 201, and 202; or
LAT 101, 102, 103, 201, and 202; or
SPAN 101, 102, 103, 201, and 202.

Option II: one of the following:

FREN 111, 112, 113, 211, and 212; or
LAT 101, 102, and 103, and two of: LAT 141, and/or 142, and/or 201;
SPAN 111, 112, 113, 211, and 212.

A student may transfer at any point from option I to option II but not vice versa. If a student selects option II, he/she must complete all courses in that sequence subsequent to

the first course in which he/she is placed. Course 202 is required for admission to 300-level courses.

Credit toward a degree is not granted for foreign language courses which duplicate more than one unit of high school study.

GROUP III: BIOLOGICAL SCIENCES, CHEMISTRY, GEOLOGY, MATHEMATICS AND STATISTICS, PHYSICS

Each student must complete two courses in one or more of these subjects, at least one quarter of which must be in a science with laboratory experience. Certain science courses numbered 100 do not apply toward a student's degree requirements if the student also has credit for the introductory laboratory course in the same science. See departmental listings in the course descriptions for specific applications.

GROUP IV: ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY

Each student must complete three courses in one or more of these subjects.

GROUP V: ART, MUSIC, PHILOSOPHY, POPULAR CULTURE, SPEECH COMMUNICATION

Each student must complete five courses in this area, at least one from each of four disciplines above. A list of courses approved for the Group V requirements is available from the College of Arts and Sciences.

CREATIVE WRITING

Enrollment in the creative writing major is dependent upon an ACT score of 22 or higher in English, or consent of the creative writing staff.

Major (56 hours)

ENG 261, 262, or 263 (4) ENG 112, 208, 209, 320, 323,
ENG 308 (10) and 407 (10) 330, and 333 (28)
ENG 205 or 206 (4)

Minor (34 hours)

ENG 112, 208, 209, 308, ENG 320 or 323 (4)
and 407 (22) ENG 330 or 333 (4)
ENG 205 or 206 (4)

SUBJECTS OFFERED AS MINORS ONLY

The College of Arts and Sciences offers several minors that are not available as majors.

ASTRONOMY

270 E. Overman Hall, 372-2422

Planned program to substitute for minor.

Four courses chosen from the following:

ASTR 201, 212, 305, 307, 309,
403, and 407

15 additional hours of PHYS

This program is intended for students with an avocational interest in astronomy. Students planning a career in astronomy should major in physics and choose astronomy courses as electives.

Other programs

A program in astronomy also is offered by the College of Education.

ITALIAN

122 Shatzel Hall, 372-2667

21 hours beyond ITAL 202 ITAL 361, 362, 371, and 372

Other programs

A program in Italian also is offered by the College of Education.

LIBRARY AND EDUCATIONAL MEDIA

216 Hayes Hall, 372-2461

(30 hours)

L&EM 203, 403, 407, 408, 428, 491 and 4 hours of
L&EM electives.

This minor prepares students for employment in non-school settings such as libraries, and in instructional media, and information science.

Other programs

Both a major and a minor in library and educational media are offered by the College of Education.

LINGUISTICS

305-A Moseley Hall, 372-2576

Planned program to substitute for minor.

An interdepartmental and interdisciplinary program designed for the student who is interested in linguistics primarily for its relevance to his/her major field. The program requires 30 hours of course work appropriately selected from the courses listed below. Courses from the strongly recommended and the elective sections must be selected in such a way that three disciplines other than the student's major field of study are represented. No work can be counted both for the major and the minor at the same time.

Required courses

LING 310 and 490

One of the following (remainder may be used as electives):

GERM 482	SPAN 455
ENG 380 (with special permission only)	RUSN 433

Strongly recommended

LING 316 and 317 (presently available at the University of Toledo only)	PSYC 421
	ENG 481
	CDIS 226

CS 104

Electives

CS 210, 305, 306, 410, 420	ENG 290, 344, 482, 490
FREN 353, 453	GERM 100, 319
LAT 145	PHIL 103, 303, 403, 412
PHYS 350	PSYC 323, 411
CDIS 223, 324, 333, 422	

A list of additional elective courses can be obtained from the chair of the steering committee of linguistics.

A student adopting this minor must consult the chair of the steering committee of linguistics, who will assign an appropriate adviser.

MASS MEDIA

Popular Culture Building, 372-2981

Planned program to substitute for minor.

A program designed to give students — as consumers of the mass media — an opportunity to examine the role of the mass media in a democratic society. Primarily for students not planning careers in print, broadcast, or film media, the program consists of a minimum of 30 hours selected from the following courses. At least three departments are to be represented and no more than three courses are to be selected from any one department.

POPC 260, 370, 426	JOUR 103, 105, 402, 435
MKT 410	POLS 341, 443
RTVF 255, 260, 460, 465, 466, 469	

SCIENCE

205 Administration Building, 372-2015

This minor is offered for the student who receives the Bachelor of Science degree. In place of a conventional minor a student may bring the total in group III (science and mathematics group requirement) to 80 hours by following a program approved by the major adviser. No more than 50 hours in the major field may be applied to this requirement.

PREPROFESSIONAL PROGRAMS

The College of Arts and Sciences provides five kinds of preprofessional programs:

Four-year curricula

These curricula, leading to the bachelor's degree, are planned to prepare the student for admission to a graduate or professional school for further specialized study.

Curricular requirements and arts and sciences preparation for some special fields of work are discussed in the following section.

Arts-professional curricula

These are offered in cooperation with the professional schools and colleges of other institutions of higher learning. The student spends three years at Bowling Green before entering a professional school. Upon satisfactory completion of the first year in the professional school, he/she is granted a bachelor's degree by Bowling Green.

Preprofessional preparation

From two to three years of preprofessional study may be completed at Bowling Green. The student then transfers to a professional school or college to complete a professional program.

Combined curricula

The student may obtain both an arts and sciences degree and an education degree at Bowling Green by following this program.

Combined baccalaureate-master's program

By following this program, the student may finish the course work for a bachelor's degree in fewer than four complete years and is prepared for early enrollment in a graduate program.

A student who expects to receive a degree by completing one of these curricula must meet all of the requirements for the degree including major, minor, and group requirements.

FOUR-YEAR PREPROFESSIONAL CURRICULA PREPARATION FOR BUSINESS

The College of Arts and Sciences offers a major or minor in either economics or business administration leading to the degree of Bachelor of Arts. The student interested in a career in business should consult the programs offered by the College of Business Administration.

PREPARATION FOR COLLEGE TEACHING

The student who wishes to prepare for a career in college teaching should plan on attending graduate school. He or she should bear in mind that many graduate schools require a reading knowledge of one or more of either French, German, or Russian. It may be advantageous to take the combined baccalaureate-master's program described on page 48. Specific curricula for teaching subjects in areas of technology at the community and technical college level are available from advisers in the Department of Home Economics and the School of Technology.

Students preparing for high school teaching should register in the College of Education unless they elect the combined arts-education curriculum described on page 47.

PREPARATION FOR GRADUATE STUDY

All programs of the College of Arts and Sciences may be used as preparation for entrance to a graduate school. The student should bear in mind that a reading knowledge of one or two modern languages chosen from French, German, or Russian is often required for the doctorate. A knowledge of statistics may be useful.

For early admission to the Graduate College, refer to the section on the Graduate College in this publication.

PREPARATION FOR CAREERS IN HOME ECONOMICS

The College of Arts and Sciences provides a variety of programs in home economics. The usual arts and sciences curriculum is followed with a major or minor in home economics. A student who is interested in teaching home economics in the school or working as an agricultural extension agent should pursue a program in the College of Education.

PREPARATION FOR LIBRARY WORK

The Bachelor of Arts degree is usually required for admission to a school of library science. A minor in library and educational media is available in the College of Arts and Sciences. The student completing such a minor can obtain a professional degree in library science in one additional year at an approved professional school. The major should be chosen from such fields as English, history, political science, and sociology; for work in special libraries, a major or electives in the sciences may be useful. At least two years of a foreign language is strongly recommended.

PREPARATION FOR PROFESSIONAL WORK IN MATHEMATICS AND THE SCIENCES

Professional work in the sciences is available to a student with a strong undergraduate degree program. A student whose academic record permits should consider graduate training.

The Department of Chemistry offers a program which meets the requirements of the American Chemical Society for professional recognition of a graduate.

PREPARATION FOR CAREERS IN ACTUARIAL SCIENCE

Professional status in the insurance industry as an actuary is attained by passing a series of examinations administered by the Society of Actuaries and the Casualty Actuarial Society. Normally some of the examinations are taken while working for an insurance company. A strong mathematics major is required. A list of recommended courses is listed under the major. Up to four of these examinations can be taken while in school. There is a separate process for pension actuaries.

PREPARATION FOR PROFESSIONAL WORK IN MATHEMATICS AND STATISTICS

For careers in research and higher education, a graduate degree is required. The undergraduate preparation should have both breadth and depth. For careers in the application of mathematics or statistics, it is essential that a strong minor be selected in computer science or a field of application, such as business administration, psychology, physics, or other sciences. Courses should also be taken to develop communication skills. A graduate degree may not be required, but students with talent should seriously consider graduate work.

PREPARATION FOR PUBLIC ADMINISTRATION

A student should consult with the Department of Political Science to plan a program of courses in political science and related fields.

PREPARATION FOR RELIGIOUS WORK

Most schools of religion recommend that a student have a broad, general education before starting professional training. The major and minor may be chosen from any area of study. A reading knowledge of at least one foreign language is essential. Because the college is affiliated with certain theological seminaries, a student may elect to pursue the arts-professional curricula and complete the degree program while in the seminary. For further information, contact the college office.

ARTS-PROFESSIONAL CURRICULA

It is strongly recommended that the student who expects to enter a professional school first complete a four-year course in the College of Arts and Sciences. A student may desire, however, to secure the degree of Bachelor of Arts or Bachelor of Science, as well as a professional degree, but may be unable to give the time necessary for the completion of both programs. Therefore, combination arts-professional curricula are offered which enable the student to shorten the time required for the two degrees.

Combination curricula are offered in cooperation with the professional schools and colleges of other institutions. These enable the student to shorten the time required for securing the two degrees by substituting the first year of work in a professional college for the fourth year of the course in arts and sciences. These courses vary in length from five to seven years — the first three years being taken in the College of Arts and Sciences and the remainder in an

approved professional school. Upon the satisfactory completion of the work of the first year in the professional college, the student is granted the degree of Bachelor of Arts or Bachelor of Science by Bowling Green State University.

Permission to graduate from one of these combination curricula must be obtained from the dean before the end of the junior year. A student in these curricula must:

1. Earn a minimum of 140 hours either in residence or by advanced standing including three hours in PEG 100; at least 90 hours must have been taken on campus at Bowling Green in the student's last two academic years prior to entering the professional school;
2. Earn a point average of at least 2.5 in all courses undertaken in residence;
3. Meet the group requirements of the degree sought;
4. Meet the major and minor requirements of the general curriculum selected.

Other programs

A combined arts-professional curriculum is also offered through the College of Education.

ARTS-ENGINEERING PROGRAM

270A Overman Hall, 372-2421

The basic science and general education courses required in an engineering curriculum are available at Bowling Green and may be transferred to a college of engineering. However, Bowling Green State University has no college of engineering and so does not offer specialized engineering course work. In an arts-engineering program, a student can earn both a Bachelor of Science degree from Bowling Green and an engineering degree from one of the following Colleges of Engineering, who have indicated their willingness to design such plans for individual students: Michigan State University, Purdue University, New York University, Ohio Northern University, University of Michigan.

In an arts-engineering program, each student's program should be planned almost from the beginning in consultation with the pre-engineering adviser and in coordination with the particular engineering college curriculum. The student usually attends Bowling Green for approximately three years, then at the end of the first year transfers credit from the engineering college to receive a Bachelor of Science degree. Similarly, course work credit at Bowling Green is transferred to the engineering college. The total time required to earn an engineering degree may be extended in this program by a semester, quarter, or a few summer sessions, because the requirements of two separate degree programs must be met. Students interested in an arts-engineering program should seek advance curriculum information and admission advice from the appropriate engineering college.

PREPARATION FOR DENTISTRY

519 Life Sciences Building, 372-2232

Most dental schools advise the student to complete four years of study in arts and sciences. Usually, either biological sciences or chemistry is used as a major course of study, but other majors and minors are possible if high grades are maintained in the required courses. Applicants with less than superior grades in the required courses are advised to consider additional work in these areas. Dental Aptitude Tests, usually taken at the end of the junior year, are required of all students.

Recommended course sequence

BIOL 201, 202, 350, 352,	MATH 130 and/or 131 (5-10)
431, 432, and 433 (33)	CHEM 201, 343, 344, and 345
CHEM 121, 122, and 123; or	(19)
CHEM 131, 132, and 133 (15)	

Suggested are additional courses in social sciences and humanities as well as a good background in communication skills. A student should plan to take the required courses to complete a major and minor; the general education group requirements for the degree sought; PEG requirements and electives. Total: 183 hours.

PREPARATION FOR LAW

206 Williams Hall, 372-2030

All accredited law schools in Ohio, like most accredited law schools throughout the country, require a college degree for admission. A college degree is also a prerequisite to taking the Ohio Bar Examination and the bar examinations for most other states.

Beyond the minimum requirements for admission, law schools emphasize the value of a broad, general program of arts and sciences for the prospective law student. Above all, they stress the importance of acquiring certain intellectual skills and abilities rather than a particular body of information. Foremost among these skills are facility in writing and speaking, logical reasoning, and the use of abstract concepts. Because the student can develop these skills in a variety of courses, there is no basis on which to prescribe a rigid and detailed "pre-law curriculum" or any particular major.

Law schools, however, uniformly emphasize the special value of courses in which considerable writing is required. In addition, courses in American government help acquaint the student with the basic legislative, administrative, and judicial processes of our society. Accounting, business, and economics courses provide an understanding of business and financial concepts and terms with which the lawyer must deal. Other disciplines, such as history, philosophy, psychology, and sociology, offer concepts, information, and perspectives that are important in dealing with modern legal issues. Finally, the pre-law student may wish to take a law course taught by case method in order to discover if his or her aptitudes lie in this direction.

PREPARATION FOR MEDICINE

519 Life Sciences Building, 372-2232; or 112 Hayes Hall, 372-0288; or 112 Overman Hall, 372-2824

Admission to medical school is selective and is dependent upon scholarship and aptitude as indicated by the scores attained on the Medical College Admission Test, normally taken during the spring quarter of the student's third year. The student should include in the premedical program a course of study to prepare for admission to medical school and for admission to an appropriate graduate school or for an industrial, government, or teaching position in case the first choice cannot be realized. To meet the requirements for admission to most medical schools, the Bachelor of Science curriculum can be modified to include the required courses and still provide the student with enough depth in at least one area for graduate work or for career opportunities if he/she should not attend medical school. There is no preferred major for entrance into medical school. Generally, either chemistry or biology is chosen by the premedical student.

The premedical student is urged to confer frequently with the adviser, particularly with respect to planning prerequisite courses for the Medical School Admission Test and for meeting the admission requirements of the medical school of the student's choice.

Recommended course sequence

BIOL 201, 202, and 203 (15)	PHYS 214, 215 and 216; or
CHEM 343, 344, and 345 (14)	PHYS 131, 232, and 233
GERM 101, 102, and 103 (12)	(15)
MATH 130 and 131 (MATH	CHEM 121, 122, and 123; or
231 and 232 optional	CHEM 131, 132, and 133
depending upon major)	(15)
(10-20)	ENG 112 (4)

In addition, a student should plan to take the required courses to complete a major and a minor; general education group requirements for the degree sought; PEG requirements and electives. Total: 183 hours.

Note: the science minor may be desirable.

PREPROFESSIONAL PREPARATION

PREPARATION FOR ENGINEERING

270A Overman Hall, 372-2421

The two-year curriculum outlined below closely parallels the introductory course work of engineering schools, and is designed for the student who expects to transfer to a college of engineering at the end of two years. Since the requirements in different engineering colleges and in different fields of engineering vary considerably, the student should consult with the pre-engineering program adviser early in the freshman year in order to plan a schedule to meet the requirements of the institution and branch of engineering in which he or she expects to receive a degree.

Engineering is presently a high-opportunity career area, and a pre-engineering program at Bowling Green offers several advantages, especially for those students who are uncertain about an engineering specialty. However, students should be advised that all engineering specialties require a high aptitude for mathematics and quantitative reasoning. In order to complete the curriculum below in two years, a student must be qualified to enroll in MATH 131 during the first quarter of the freshman year; this normally requires four years of high school mathematics and good mathematics aptitude.

Recommended course sequence

MATH 131, 231, 232, 233,	PHYS 131, 225, 232, 233, and
and 332 (23)	334 (23)
CHEM 121, 122, and 123 (15)	CS 101 or 103 (4-5)
DESN 104 and 204 (9)	CS 104 (5)
Electives	ENG 112 (4)

PREPARATION FOR MORTUARY SCIENCE

503 Life Sciences Building, 372-0361

The Board of Embalmers and Funeral Directors of Ohio requires a minimum of 90 quarter hours of general education to be eligible to register with the board prior to entering a college of mortuary science. At least 45 hours must be in the following subject areas, with a minimum hourly distribution of: English (12 hours), science (12 hours), social science (12 hours), fine and/or applied arts (9 hours). For information about colleges accredited by the Commission of Schools of the American Board of Funeral Service Education, write to the agency at 201 Columbia St., P.O. Box 2098, Fairmont, WV 26554.

A cooperative arrangement exists with the Cincinnati College of Mortuary Science, whereby a student can complete three years at Bowling Green, plus the CCMS diploma program and receive a Bachelor of Arts degree with an individualized planned program in mortuary science. For further information, contact G. Lee Caldwell, 205 Administration Bldg., 372-2015.

PREPARATION FOR OCCUPATIONAL THERAPY

503 Life Sciences Building, 372-0361

Occupational therapy — an auxiliary medical service in which normal activities are used as remedial treatment in the rehabilitation of patients — is being used increasingly in hospitals, schools, rehabilitation centers, and related institutions. Such therapy is prescribed by physicians and applied by the trained therapists as part of the treatment for an adult or a child in the areas of orthopedics, psychiatry, tuberculosis, general medicine, and surgery.

Recommended course sequence (92 hours)

ART 102 (5)	MATH 124 and 125 (10)
BIOL 104 and 332 (10)	PHYS 214 (5)
CHEM 111 (4)	PSYC 201, 270, 271, 302, and
ENG 112 (4)	405 (23)
TECH 313 and 457 (8)	SOC 101, 202, and 301 (12)
LAT 145 (4)	SPCH 102 (4)
Electives	PEG 100 (3)

In preparing for a career in occupational therapy, the student should complete two years of preprofessional courses, two years of academic instruction in an approved professional school, and 10 months of clinical training.

PREPARATION FOR OPTOMETRY

112 Hayes Hall, 372-0288

Requirements for admission to the schools and colleges of optometry vary. Typically, they include courses in English, mathematics, physics, chemistry, and biological sciences.

Requirements of specific schools should be examined before taking courses for transfer to them. A list of accredited schools and colleges of optometry in the United States can be obtained from the American Optometric Association, 7000 Chippewa St., St. Louis, MO 63119.

The following two-year pattern coordinates with the program of the School of Optometry of Ohio State University.

Recommended course sequence (93 hours)

CHEM 121, 122, 123, 306, and 308 (24); or CHEM 343, 344, and 345 (14)	BIOL 201, 202, and 203 (15) ENG 112 (4) MATH 130, 131, and 231 (15) PEG 100 (3)
PHYS 214, 215, and 216 (15)	Electives

The amount of foreign language to be taken depends on the requirements of the professional school and the student's high school preparation. Students who do not need foreign language courses should substitute those courses which meet the requirements of the professional school they plan to enter. HIST 153 is recommended for a student who plans to enter the School of Optometry of Ohio State University.

PREPARATION FOR OSTEOPATHY

The requirements and recommendations for entrance to schools of osteopathy are essentially the same as those for medical school.

PREPARATION FOR PHARMACY

112 Hayes Hall, 372-0288

All accredited colleges of pharmacy require five years of study to qualify for the pharmacy degree. Two years of the five-year requirement may be satisfied at this University by completing the prepharmacy curriculum outlined below. The state boards of pharmacy usually require a period of practical experience in pharmacy. Students should request information concerning requirements for a certificate to practice pharmacy from the board of pharmacy in the state in which they wish to practice. In Ohio this information may be obtained from the secretary, State Board of Pharmacy, Wyandotte Building, 21 West Broad St., Columbus, OH 43215.

Since colleges of pharmacy vary in their requirements, a prepharmacy student should ascertain the requirements of the school he/she plans to enter before selecting the courses for the second year. The program outlined below prepares the student for transfer to the College of Pharmacy at Ohio State University. It is now possible to enter the College of Pharmacy at Ohio State University after a one-year prepharmacy program.

A list of accredited colleges of pharmacy may be obtained from the American Association of Colleges of Pharmacy, 4630 Montgomery Ave., Suite 201, Bethesda, MD 20014.

Recommended course sequence (93 hours)

BIOL 201, 202, 203, and 313 (20)	PEG 100 (3) Electives chosen from social sciences, literature, and philosophy.
ENG 112 (4)	
PHYS 214, 215, and 216 (15)	
MATH 130 and 131 (10)	CHEM 121, 122, 123, 343, 344, and 345 (29)

PREPARATION FOR VETERINARY MEDICINE

112 Hayes Hall, 372-0288

Colleges of veterinary medicine require two years of preveterinary medical work for admission; however, often a student is advised to apply after a third year of work or after securing a bachelor's degree. The two-year preveterinary medical program which follows is typical, but colleges of veterinary medicine vary greatly in their requirements. Students should obtain information as early as possible

about the requirements of the school where they plan to transfer. A list of accredited colleges of veterinary medicine in the United States can be obtained from the American Veterinary Medical Association, 900 N. Meacham Rd., Schaumburg, IL 60172.

For admission, the College of Veterinary Medicine of Ohio State University requires courses in animal husbandry and related areas which cannot be taken at Bowling Green. It is possible for the student who plans a three-year preveterinary medical program to defer them temporarily by substituting advanced biology courses, but it may be more advantageous for the student to transfer after one year to the Agriculture-Veterinary Medicine Program at Ohio State University.

Recommended course sequence (93 hours)

BIOL 201, 202, and 203 (15)	CHEM 121, 122, 123, 306, 308, and 309 (26)
ENG 112 (4)	MATH 130 (MATH 124 acceptable for a student who enters with prerequisite for physics) (5)
PEG 100 (3)	PHYS 214, 215, and 216 (15)
Electives selected to meet requirements of the college of veterinary medicine to be entered.	

COMBINED CURRICULA

ARTS-EDUCATION CURRICULUM

205 Administration Building, 372-2015

The student who desires to take an arts and sciences degree to qualify for certification to teach in the public schools may: take work in education after graduation or; qualify for the combined degree program outlined here. On the basis of the accumulative point average, a student may register in both the Colleges of Education and Arts and Sciences for the combined degree as soon as eligible.

The student in the dual-degree program leading to the Bachelor of Arts or Bachelor of Science degree from the College of Arts and Sciences and the Bachelor of Science in Education degree from the College of Education must:

1. secure permission of the deans of both colleges before the end of the junior year;
2. maintain an accumulative grade point average of 3.0 or better based upon at least two quarters of work at Bowling Green;
3. complete the requirements of both colleges for the degrees sought;
4. earn at least 213 hours including education courses.

By careful selection of electives, the program in both colleges can be completed in 12 quarters plus one summer. The superior student may increase the number of subjects to be carried each quarter and complete the program in less time.

OTHER DUAL DEGREE PROGRAMS

205 Administration Building, 372-2015

The student who wishes to earn a dual degree involving the College of Arts and Sciences and another undergraduate college within the University may do so by adhering to the following requirements:

1. secure permission to pursue a dual degree program from the offices of both deans before the end of the junior year;
2. complete at least two quarters of University work as a full-time student with at least a 3.0 accumulative grade point average during the two quarters immediately preceding enrollment in both colleges;
3. meet the group requirements of both colleges;
4. present to the dean of the College of Arts and Sciences a program of study of at least 30 credit hours, consisting of courses not used to fulfill requirements for the degree being pursued in the College of Arts and Sciences;
5. earn a minimum of 213 quarter hours for graduation.

CERTIFICATION TO TEACH IN THE PUBLIC SCHOOLS

365 Education Building, 372-0151, and 455 Education Building, 372-0151

The student who holds a bachelor's degree in arts and sciences may become certified to teach in the public schools of Ohio with a four-year provisional certificate by fulfilling the state requirements for such certification. These requirements differ with the teaching field chosen. A list of these requirements and degree-holder program applications are available in the Program Advisement Office of the College of Education, Room 365, Education Building.

Several institutions including Bowling Green offer graduate programs whereby an arts and sciences graduate may take work leading both to certification to teach in the public schools and a master's degree. Announcement of such programs may be inspected in the College of Education, Room 455, Education Building.

COMBINED BACCALAUREATE-MASTER'S PROGRAMS

3/2 ARTS AND SCIENCES-GRADUATE BUSINESS PROGRAM

369 Business Administration Building, 372-2488; or 205 Administration Building, 372-2015

The 3/2 Arts and Sciences-Graduate Business Program is designed for highly qualified arts and sciences students in various nonbusiness major programs who wish to pursue a career in management or accounting.

This program combines the curriculum of an arts and sciences baccalaureate degree with the preparation necessary for graduate level study leading to the Master of Business Administration or Master of Accountancy Degree.

By judicious selection of electives, students plan to complete most of the specific course requirements for the undergraduate degree in the first three years of study. The senior year is composed of a special sequence of general business courses which serve both to complete the baccalaureate requirements and prepare the student to earn the Master of Business Administration or the Master of Accountancy with approximately one year's additional study. Thus, with the completion of all requirements, an arts and sciences baccalaureate degree should be awarded at the end of the fourth year and the master's degree at the end of the fifth year, although the time devoted to either degree may vary according to the flexibility of the student's particular undergraduate major and/or minor program.

Although students would not formally apply for admission to this program until the junior year, it is important to indicate interest as early as possible and work closely with the program adviser. Requirements for admission include an accumulative grade point average of 3.0 and a score of 500 on the Graduate Management Admission Test, which is given on the Bowling Green State University campus in January, March, July, and October each year.

COMBINED BACCALAUREATE-MASTER'S PROGRAM IN CHEMISTRY

110 Hayes Hall, 372-2031, or 205 Administration Building, 372-2015

The combined baccalaureate-master's program in chemistry offers the well-qualified science student the opportunity to complete the Bachelor of Science degree in three years and the Master of Science degree at the end of the fourth. By completing the two degrees in four years, the student may become better prepared to earn the Ph.D. degree because of the more concentrated background. In addition, a preprofessional student may elect either to complete the three-year B.S. program and go directly to professional school or to continue on to earn the M.S. degree to prepare for a research-oriented career.

The program is structured on a schedule of four years, including summers. Courses should be carefully chosen so that major and group requirements will be completed on time.

First year

A first-year student will take three quarters each of chemistry and calculus, will complete the English requirement, and take social science and/or humanities courses. In the summer quarter the student will take either 12 hours of German (or Russian) or 5 hours of quantitative analysis, or both.

Second year

A second-year student completes three quarters of physics and three quarters of organic chemistry and finishes the requirements in social sciences and humanities as well as the physical education requirement. If these have been completed, other courses may be substituted.

Third year

This year includes three quarters of physical chemistry and electives chosen from biochemistry or advanced organic chemistry. A course in instrumentation or inorganic chemistry completes the undergraduate chemistry major. Some students may choose independent research or other electives such as differential equations. During the third summer, a student begins research and completes the Bachelor of Science requirements.

Fourth year

Upon admission to the Graduate College, courses in thermodynamics, kinetics, quantum mechanics, reaction mechanisms, inorganic chemistry, and atomic and molecular structure are taken. During the fourth year, the student may become eligible for a stipend as well as tuition waivers for assisting in one or more undergraduate laboratories. In the final summer, the student would normally be expected to complete a formal thesis as part of the Master of Science program (plan I). Under certain circumstances, however, a student may, by early consultation with his or her academic adviser, elect the nonthesis option (plan II) and still complete the program within the four-year period.

This program also offers students the option of studying off campus for a quarter in a governmental or industrial laboratory, which would likely be done during the summer between the third and fourth years.

OTHER COMBINED BACCALAUREATE-MASTER'S PROGRAMS

205 Administration Building, 372-2015

An undergraduate capable of maintaining high grades can take the undergraduate degree in the middle of the fourth year by carrying an average of 17 hours for 11 quarters. The resulting total of 187 hours is 4 more than the required minimum for the undergraduate degree. These 4 hours might be taken as graduate credit and followed by a full quarter of graduate study. A candidate for a graduate degree may not become a candidate for a degree in an undergraduate college without the permission of the dean of the Graduate College.

School of Art

Maurice J. Seigny, *Director*, Fine Arts Building, 372-2786

BACHELOR OF FINE ARTS DEGREE

The requirements for the degree of Bachelor of Fine Arts, in addition to the general requirements for the baccalaureate listed on page 7, include completion of:

1. the indicated hours of credit from each of five groups or areas of knowledge listed below;
2. completion of a major area of specialization in art history, ceramics, crafts, design (environmental or graphic), drawing, jewelry and metalsmithing, painting, prints, or sculpture;
3. completion of 56 hours in basic courses in design, drawing, ceramics, history of art, sculpture, painting, and prints;
4. the completion of enough additional courses in art to total 80 hours.

The student who plans to teach art in the public schools may follow the teacher preparation program.

GENERAL EDUCATION GROUP REQUIREMENTS

GROUP I: COMMUNICATION

Each student is required to complete ENG 112 or to demonstrate by examination a proficiency in written expression equivalent to that provided in the course. Each student is required to complete SPCH 102.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

Each student is required to demonstrate a proficiency in a language area as stipulated in the options listed below by:

1. having been graduated from a high school where all instruction was conducted in a language other than English; or
2. passing a proficiency examination in the language on the 202 course level; or
3. having completed four years of one language in high school; or
4. having completed one of the departmental options listed below (20 hours minimum in same language area, or fewer by advanced placement):

German, Japanese, Russian

Completion of GERM 101, 102, and 103 plus a minimum of eight additional hours from: 100, 117, 118, 119, 201, 202, 217, 231, 331, and/or GERM 260, 315, 316; or

Completion of JAPN 101, 102, 103, 201, and 202; or

Completion of RUSN 101, 102, and 103, plus a minimum of eight additional hours from: RUSN 100, 201, 202, 303, 315, 316, 317, 319, 331, and/or RUSN 311, 312, 313.

Romance languages (French, Italian, Latin, Spanish)

Option I

FREN 101, 102, 103, 201, and 202; or

ITAL 101, 102, 103, 201, and 202; or

LAT 101, 102, 103, 201, and 202; or

SPAN 101, 102, 103, 201, and 202; or

Option II: one of the following:

FREN 111, 112, 113, 211, and 212; or

LAT 101, 102, and 103, and two of: LAT 141 and/or 142, and/or 201;

SPAN 111, 112, 113, 211, and 212.

A student may transfer at any point from option I to option II but not vice versa. Course 202 is required for admission to 300-level courses.

Credit toward a degree is not granted for foreign language courses which duplicate more than one unit of high school study.

GROUP III: MATHEMATICS AND SCIENCE: ASTRONOMY, BIOLOGICAL SCIENCES, CHEMISTRY, GEOLOGY, MATHEMATICS AND STATISTICS, PHYSICS

Each student must complete two courses in one or more of these subjects, at least one quarter of which must be a science with laboratory experience. Certain science courses

numbered 100 do not apply toward a student's degree requirements if the student also has credit for an introductory laboratory course in the same science. See departmental listings in the course descriptions for specific applications.

GROUP IV: SOCIAL SCIENCE: ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY

Each student must complete three courses in one or more of these subjects.

GROUP V: ARTS AND HUMANITIES: LITERATURE (AMERICAN, ENGLISH, OR FOREIGN), MUSIC, PHILOSOPHY, POPULAR CULTURE, SPEECH COMMUNICATION

Each student must complete one course in literature (American, English, or foreign), one course in the fine arts (music, theatre, television and film), and an additional three courses from at least two of the areas listed in this group. A list of courses approved for Group V requirements is available in the office of the College of Arts and Sciences. Courses taken in the student's major may not be counted to satisfy this group.

Majors

120B Fine Arts Building, 372-2786

The School of Art offers major programs in art history, ceramics, crafts, design (graphic and environmental specializations), drawing, jewelry and metalsmithing, painting, prints, and sculpture.

BASIC AREA

Each student is required to complete the following:

ART 102, 103, 104, 112, 113, ART 212 or 213 (3)
145, 146, 147, 205, 206, Two art history electives (6)
211, 261, 263, 277, 371, 373
(47)

Recommended course sequence

First year (21 hours)

ART 102, 103, 104, 112,
113, 145, and 146

Second year

ART 147, 205, 206, 211,
261, and 263

ART 212 or 213
Major art area

Third year

ART 277, 371, and 373

Major art area
Art history

Fourth year

Art history
Major art area
ART electives

MAJOR AREAS

Each student is required to complete at least 18 hours in one of the major programs listed below. A student should consult each quarter with the major area instructors concerning progress and course sequence. No 100-level course may be applied toward the completion of major art area requirements.

ART HISTORY

Second year

ART 147 (3)

Third year

ART 444, 445, or 446 (3)

ART 451 or 454 (3)
ART 441 or 442 (3)

Fourth year

ART 455, 456, or 457 (3)

Art history electives (6)

CERAMICS

Second year

ART 263 and 363 (6)

Third year

ART 364 and 463 (6)

Fourth year

ART 463 (repeat) (3)

CRAFTS

Second year

ART 363 and 364 (6)

Third year

ART 321 and 322 (6)

Fourth year

ART 265 (3)

Crafts electives

DESIGN

Two design specializations are available leading to the Bachelor of Fine Arts degree: environmental design and graphic design. These programs are interdisciplinary and require a support field of study as part of the major.

Environmental Design Specialization

Second year

ART 211, 212, 213, and 214 (12)

Third year

ART 313, 314, and 417 (9)

Plus support field

Graphic Design Specialization

Second year

ART 211, 212, 213, and 214 (12)

Third year

ART 312, 411, and 412 (9)

Fourth year

ART 413 and 414 (6)

Plus support field

Other programs

A product design specialization is available as a Bachelor of Science degree through the School of Technology, in cooperation with the School of Art's design division. A major in interior design is available through the Department of Home Economics. A major in design technology is available through the School of Technology.

DRAWING

Second year

ART 208 (3)

Third year

ART 305 (repeat) (3)

Fourth year

ART 405 (repeat) (3)

JEWELRY AND METALSMITHING

Second year

ART 320 (3)

Third year

ART 321, 322, and 421 (9)

Fourth year

ART 421 (repeat) (3)

ART 422 or 423 (3)

PAINTING

Second year

ART 372 or 374 (3)

Third year

ART 372 (repeat) or 374 (repeat) (3)

Fourth year

ART 471 or 473 (repeat twice) (3)

PRINTS

Second year

ART 277 and 377 (6)

Third year

ART 378 (repeat) (3)

Fourth year

ART 477 (repeat) (3)

SCULPTURE

Second year

ART 261 (3)

Third year

ART 361 (repeat) (3)

Fourth year

ART 461 (repeat) (3)

TEACHER PREPARATION

116 Fine Arts Building, 372-2786

A Bachelor of Science in Education degree program in visual arts education is available through the College of Education, in cooperation with the School of Art (refer to the College of Education program description). An alternative teacher preparation program is available as a combined arts and sciences/education curriculum which leads to the Bachelor of Fine Arts degree with certification to teach in the public schools. This B.F.A. degree program offers extended in-depth experiences in the studio component of the art education content specialization. Students in the B.F.A. program may qualify for teacher certification through successful completion of the teacher education certification requirements. This combined program will generally require an additional academic year to complete. Though it is possible to complete the education requirements in a fifth year of study, it is highly recommended that B.F.A. students desiring Ohio teacher certification attend to requirements earlier in their programs.

The following courses are required for teacher certification: ART 252, 352, and 353; EDCO 202 and 331; EDFI 302, 402, and 408; EDSE 311; and an art education elective. These courses are included in the recommended sequence of courses outlined below.

Recommended sequence of courses

First year

ART 102, 103, 104, 112, 113, 145, and 146 (21)

Foreign language (amount of credit depends on high school preparation of the student)

SPCH 102 (4)

ENG 111 and/or 112 (4-8)
PEG 100 (3)

Two courses of science or mathematics (one of which must be a laboratory course)

Second year

ART 147, 205, 206, 261, 361, 363, and 371 (21)

Foreign language or

electives

EDFI 302 (4)

ART 211, and/or 212, and/or 213 (6)

PSYC 201 (5)
EDCO 202 (3)
EDSE 311 (3)

Third year

ART 252, 277, 321, 352, 353, 373, and 377 (18)

Art history elective

ART 372 or 374 (3)
EDFI 402 and 408 (8)
Major art area
Literature elective

Group IV requirements: SOC 101 and six hours of electives other than PSYC

Group V requirements: three humanities courses (one course in art history is applied to this requirement)

Fourth year

Professional concentration (one quarter)

Art history

Student teaching (one quarter)

Major art area

The major art area and two art electives — crafts — may be completed in an additional quarter or in summer study if necessary.

A student who follows this curriculum registers each quarter in both the Colleges of Arts and Sciences and Education and has the program approved by the appropriate advisers. This program may be continued after the freshman year only with the approval of the School of Art staff. The student who must take two years of foreign language and who follows a program in aerospace studies or in military science needs to take more than the usual time to complete this program.

School of Speech Communication

Allen S. White, *Director*, 109 South Hall, 372-2136

TELEVISION AND FILM INSTRUCTION

The School of Speech Communication maintains complete television and film production facilities in South Hall. Students enrolled in courses in the radio-television-film area work in professional radio and television studios and film-making quarters. Film-making equipment, including a completely equipped darkroom, makes it possible for a student to work in creative, experimental film production.

Student-made films can be aired on the University closed-circuit television system and on WBGU-TV and may be entered in film festivals. Major film projects are sponsored by outside organizations.

BG-TV7 provides weekly news, sports, and feature programming to the campus community via the closed-circuit television system.

A television studio-classroom affords opportunities for faculty and students to conduct research involving video-taping techniques.

TELEVISION CENTER

Located on south campus, the University Television Center contains public television station WBGU-TV and closed-circuit instructional television production and distribution facilities.

The center's award-winning staff of 30 full-time professional broadcasters is assisted by graduate assistants, doctoral fellows, and more than 50 undergraduate employees.

WBGU-TV, a regional public television station serving northwestern Ohio and northeastern Indiana, broadcasts instructional television programs to elementary and secondary classrooms during the day and cultural and public affairs programs to the general public throughout the evening. It is affiliated with the Public Broadcasting Service (the national public television network) and with the Ohio ETV Network. The station's extensive local program production schedule provides student opportunities for professional production experience in television.

The Closed-Circuit Instructional Television Office serves the campus community with telecourses and a variety of other educational television and film materials used by academic departments. A campus-wide dual television cable system carries commercial station programs and educational programming to all residence halls. The system also provides opportunity for intra-University communications.

The center's television staff contracts with state and other agencies for production projects, some of which attain nationwide distribution.

RADIO STATIONS

WBGU, the University FM radio station, broadcasts on 88.1 megahertz with 1,350 watts. Programming consists of news, public affairs, cultural features, and classical, jazz, folk, and rock music. The station is operated by the radio-TV-film area of the School of Speech Communication closely cooperating with other University units such as the School of Journalism, the College of Musical Arts, and the Popular Culture Department. Faculty and student volunteers provide the majority of the station's staff. WBGU-FM's transmitter and studio are located in 413 South Hall.

Carrier-current WFAL is a student-operated commercial AM radio station broadcasting to residence halls on campus. The station provides communication to and among students while offering commercial programming designed to meet student interests. The station is heard in the residence halls on 680 kc. WFAL operates throughout fall, winter, and spring quarters. The office and studio are located in 413 South Hall.

FORENSICS

A broad program in forensics stressing debate, extempore speaking, public address, and interpretative reading is sponsored by the School of Speech Communication. Experienced and beginning debate teams travel throughout the nation competing against teams of other colleges and universities.

UNIVERSITY THEATRE

The University Theatre, a division of the School of Speech Communication, serves as a laboratory for any University student interested in theatre and speech.

The University Theatre production program is staged in two theatres — the Main Auditorium and the Joe E. Brown Theatre. Normally, there are six major productions in Main Auditorium and nine to twelve in the Joe E. Brown Theatre each year. These include one play for children and a reader's theatre production. A special thrust of the University Theatre Program is the Third World Theatre, offering several productions a year of special cultural interest. The Huron Summer Playhouse, operating in Huron, Ohio, provides students with a full range of summer stock experience.

BACHELOR OF ARTS IN COMMUNICATION DEGREE

The requirements for the degree of Bachelor of Arts in Communication (BAC) include completion of the general requirements for the baccalaureate listed on page 7 and:

1. The minimum number of courses from each of six areas of knowledge listed below;
2. Completion of a specialized program in communication studies as defined below;
3. Completion of at least 78 hours outside the School of Speech Communication.

A Bachelor of Arts degree in speech communication is also offered by the College of Arts and Sciences. The student who plans to teach speech in the public schools should follow the Bachelor of Science in Education program offered in the College of Education.

GENERAL EDUCATION

GROUP REQUIREMENTS

GROUP I: COMMUNICATION

Each student is required to complete ENG 112 or demonstrate by examination a proficiency in written expression equivalent to that attained by the student who completes the course. SPCH 102, THEA 202, and IPCO 305 are also required.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

Each student must follow one of the following options:

- A. Formal study of a foreign language by:
 1. having been graduated from a high school where all instruction was conducted in a language other than English; or
 2. passing a proficiency examination in the language on the 202 course level; or
 3. having completed four years of one language in high school; or
 4. having completed one of the departmental options listed below (20 hours minimum in the same language area, or fewer by advanced placement).

German, Japanese, Russian

Completion of GERM 101, 102, and 103 plus a minimum of eight additional hours from GERM 100, 117, 118, 119, 201, 202, 217, 231, 331 and/or GERM 260, 315, 316; or

Completion of JAPN 101, 102, 103, 201, and 202; or

Completion of RUSN 101, 102 and 103, plus a minimum of eight additional hours from RUSN 100, 201, 202, 303, 311, 312, 313, 315, 316, 317, 319, 331, and/or RUSN 311, 312, 313.

Romance languages (French, Italian, Latin, Spanish)

Option I

FREN 101, 102, 103, 201, and 202; or
ITAL 101, 102, 103, 201, and 202; or
LAT 101, 102, 103, 201, and 202; or
SPAN 101, 102, 103, 201, and 202.

Option II: one of the following:

FREN 111, 112, 113, 211, and 212; or
LAT 101, 102, and 103 and two of: LAT 141, and/or 142,
and/or 201
SPAN 111, 112, 113, 211, and 212.

A student may transfer at any point from option I to option II but not vice versa. If a student selects option II, he/she must complete all courses in that sequence subsequent to the first course in which he/she is placed. Course 202 is required for admission to 300-level courses.

Cultural Experience

Students may select a planned program of at least four courses involving study of foreign or ethnic cultures drawn from a previously approved list in the School of Speech Communication. This option is open only to those students who have completed two years of one foreign language in high school.

GROUP III: MATHEMATICS AND STATISTICS, AND SCIENCE

Each student must complete two courses including one laboratory from biological sciences, chemistry, geology, mathematics, physics, or statistics. Certain science courses numbered 100 do not apply toward a student's degree requirements if the student also has credit for the introductory laboratory course in the same science. See departmental listing in the course descriptions for specific applications.

GROUP IV: SOCIAL SCIENCES: ECONOMICS, GEOGRAPHY, HISTORY, POLITICAL SCIENCE, PSYCHOLOGY, SOCIOLOGY

Each student must complete three courses in two of these areas.

GROUP V: ARTS AND HUMANITIES: ART, LITERATURE (AMERICAN, ENGLISH, OR FOREIGN), FILM, MUSIC, PHILOSOPHY, POPULAR CULTURE, THEATRE

Each student must complete three courses in at least two of these areas from an approved list of courses.

GROUP VI: COGNATE STUDIES EXPERIENCE

Students must complete, as specified by the nature of their specialized programs, seven additional courses from at least two of the above areas. No more than three courses from the School of Speech Communication may be used to satisfy this requirement.

SPECIALIZED PROGRAM

Each student is expected to present a program of specialization in communication study from existing structured options (theatre, communication disorders, radio-television-film, interpersonal and public communication), or a previously approved individual program to approximate the equivalent of a range from 64 to 80 hours.

The following options are available:

1. A program concentrated in one of the four speech communication areas (theatre, communication disorders, radio-television-film, or interpersonal and public communication), supplemented by either an appropriate organized minor or approved support field pertinent to the program.
2. A program including two or more speech communication areas, supplemented by a support field pertinent to the program.
3. A program including one or more speech communication areas, departments, and divisions in the College of Arts and Sciences and/or other colleges and schools in the University, supplemented by a support field pertinent to the program.

Students must consult advisers in the School of Speech Communication for assistance in planning their individual academic programs.

University Division of General Studies

231 Administration Building, 372-0202

Dr. Robert Bashore, *Director*, University Honors Program
Dr. Beth Casey, General Studies Curriculum Development
Dr. Paul Haas, Interdisciplinary Programs
Ms. Nancy Miller, Off-Campus Programs and Independent Studies

Dr. Joan Morgan, Advising and Counseling
Dr. Charlotte Scherer, University Seminar

The University Division of General Studies provides a central location for five University-wide academic programs: the University Honors Program, the Office of Advising and Counseling for undeclared students, the Office of Independent Studies, the University Seminar, and the Office of General Studies Curriculum Development. The advising and counseling services benefit students who wish to explore a variety of courses and programs before making a decision on a college or a major. Information and advising are provided to the student who seeks independent study credit for individually designed programs of study, internships, or travel experiences. Students who wish to take advantage of the various off-campus programs offered by the University also can obtain information in the division.

ADVISING AND COUNSELING SERVICES

Freshmen entering BGSU may wish to explore a variety of academic areas before formally declaring a major area of study. Such students can enroll in the University Division of General Studies which provides a variety of services.

Each student is assigned an academic adviser who can counsel the student on the general studies requirements of each of the five undergraduate colleges. The division also maintains information about the academic requirements of each major offered at the University. A student who desires more information about a specific major is referred to the appropriate departmental office. In addition, division students often enroll in UD 131, a two-credit course designed to help them learn more about themselves as well as more about various career areas. Although the advising and counseling services of the division are used primarily by freshmen, other students who want to investigate majors offered by the various colleges can also take advantage of the division's programs.

PROGRAMS FOR FRESHMEN AND NEW STUDENTS

University Seminar (UD 100)

The University Seminar, a special 2-credit course, focuses on topics of interest to students who are new to BGSU, such as the purposes of higher education, the range of available University resources, and academic planning and career decision making. The goals of the University Seminar are to facilitate the transition to the academic and cultural life of the University, to increase understanding of the purpose and value of higher education relative to the student's own life experience, and to sharpen those basic skills and understandings necessary for academic success in a university. Classes are taught by teams composed of a faculty member, a staff member, and an upper-class student. The course is available on an S/U basis.

Career Planning and Decision Making (UD 131)

This two-credit course has three components. The first is self-understanding/assessment, with emphasis on identifying values, interests, needs, and skills. The second focuses on the work world, analyzing occupational trends, the job market, etc. The third assists students in developing goals and decision-making skills.

Summer Transition Program

This program is a combination of advising, orientation, and specially coordinated course work designed to help new freshmen with the transition to university life. The program combines a course on study skills, orientation to the University, and personal growth (UD 121) with a career planning and decision making course (UD 131). This four-credit component aids freshmen in increasing their study skills and formulating plans for getting the most out of their college education. Scheduling is flexible, allowing students to include other courses in their summer studies.

*Time-Flexible Degree Program

This program was created for those students who can attain and demonstrate college-level general studies competencies more quickly than others. Consequently, they may not need nor desire to spend as much time as other students in pursuing general studies.

Students who participate in the Time-Flexible Degree Program are asked to demonstrate, at the end of their freshman year, competencies in these general education areas: physical sciences, social sciences, humanities, critical thinking, and communicating. These competencies are evaluated primarily through grades and scores on comprehensive examinations. Students who display evidence of high achievement in these general education areas may receive up to 45 credit hours toward completion of their baccalaureate degrees. These credits, in most instances, may be used in place of course work to satisfy general studies requirements. As a result, students may be able to graduate in less than the customary four years and then seek employment or entrance to graduate or professional schools; or they may design a flexible four-year program, pursuing such academic options as double majors, off-campus internships, and study abroad programs.

Students who apply are counseled individually concerning the freshman general studies program best suited to helping them acquire or sharpen necessary competencies. Their background and personal, academic, and career goals serve as guidelines for making these decisions. With few exceptions, individuals who have received achievement credits through the Time-Flexible Degree Program have had well above a "B" average throughout their freshman studies and have scored at least at the sophomore level on the required comprehensive examinations.

*College Level Examination Program (CLEP)

CLEP offers general area examinations in English composition, natural science, humanities, social science, and mathematics. Students may use these examinations as vehicles for earning college credit at BGSU. There are individual test dates each month, but BGSU also offers a special campus test date for incoming freshmen usually just before their fall classes begin in September. To be eligible for an area of the CLEP exam a student *must not have done college level work in that specific area*. For information on the reduced costs of the BGSU institutionally administered test, contact the University Division or the Counseling and Career Development Center.

UNIVERSITY HONORS PROGRAM

This program is open to qualified incoming students and to other undergraduates who are concerned about the quality of their general education as well as their field of specialization. The Honors Program offers intellectually challenging experiences in general studies (small discussion groups, guest speakers, independent projects, travel-study seminars); recognition for outstanding performance; opportunities for interaction with students of similar ability and motivation. Special housing options are available for honors students.

*Although students may be awarded college credit through more than one of these programs, students may not receive credit from more than one of these programs for the same course or academic experience.

Admission criteria for incoming students include:

1. An ACT composite of 27 or above (SAT equivalent being established).
2. High school grade point average of 3.5 ("B") on a 4.0 scale or placing in the top 10 percent of the high school graduating class.
3. Placement in or exemption from ENG 112.
4. Two letters of recommendation.
5. Possible interview after committee screening of application.

For more details and an application form, contact the Honors Program office, 231 Administration Building, 372-0202. The deadline for all application materials is June 1; successful candidates will be notified by July 1.

Admission criteria for continuing students include:

1. completion of 15 credit hours at BGSU with a 3.5 ("B+") grade point average or completion of two University honors courses with grades of "B" or better;
2. placement in, exemption from, or completion of ENG 112.

Students who complete honors courses will have this reflected on their transcripts, and those who successfully complete at least six honors courses will be named University Honors Students.

The honors program does not displace nor conflict with departmental majors, nor does it require additional courses. Rather, the program is designed to provide more scholarly, yet personalized, strategies for satisfying general studies requirements in the various BGSU colleges. Rigorous honors options are being developed throughout the University's curricula. Contact the honors program director for details.

GENERAL EDUCATION PROGRAMS

General education provides the breadth of knowledge that characterizes the liberally educated individual as well as the foundation of intellectual skills needed to meet academic and life goals successfully.

There are many ways to meet the collegiate and University general education requirements—courses, tests, and special programs are all available. University Division advisers can describe and comment on these alternatives and can help students acquire the best general education possible so they can move into baccalaureate degree programs as soon as they are confident of their choice and are eligible to begin.

Little College

Designed to develop critical thinking, communication, and values analysis skills, this program consists of two integrated courses taught by a team of faculty: UD 101 (Evaluating Social Controversies), five social science credits; and UD 102 (Values Analysis), two elective credits.

Cluster Colleges

These provide living-learning experiences and involve one quarter of academic work structured around a theme, which is usually approached from the perspective of several subject areas. Cluster colleges have focused on such themes as values, success, the environment, making choices, the individual and society, population, and the economy.

Humanities Cluster College (UD 111)

The humanities cluster is a 10-credit, one-quarter, residential experience in art, literature, philosophy, and theater. It meets humanities group requirements in all BGSU colleges.

Students in the Humanities Cluster take classes, do reading in the humanities, take museum trips, attend plays, listen to speakers, and watch and discuss films, as well as write, paint, act, philosophize, and compose. Participating faculty become involved in all aspects of the cluster.

German Cluster Colleges

These programs are offered by the Department of German and Russian and provide students with an in-depth experience in the German language and culture during the

summer quarter. German Cluster College I is for students with little or no previous contact with German; it carries 20 hours of credit. German Cluster College II is offered on the intermediate level during the first five-week summer term, and carries eight hours of credit. In addition to regular classroom instruction, the German Cluster Colleges include supervised drill in the language laboratory, small group practice, individual tutoring, and social activities such as movies, folksinging, and picnics.

French Cluster College and Spanish Cluster College

These cluster colleges are offered by the Department of Romance Languages. The French Cluster College and the Spanish Cluster College are designed for students with little or no previous contact with these languages (either FREN 101 or SPAN 101 or equivalent is considered sufficient). The French cluster college is usually offered in the winter or spring; the Spanish cluster college is usually offered in the spring.

Thematic Quarters

Similar to, but less intensive than, the Cluster Colleges, the thematic quarters strive for integration of ideas and subject matter by offering, within a single quarter, courses from different departments that have strong relationships to each other. Although taught by faculty members from separate departments, assignments and activities are coordinated so that students can see interrelationships.

Examples of past thematic quarters include:

Mass Media Quarter

Integrates courses in popular culture, radio-television-film, political science, and sociology for insight into the impact of the mass media upon American society. Assesses the political, psychological, cultural, and social meanings of that impact.

Religion and Culture Quarter

Students are involved with faculty in English, sociology, history, philosophy, and the University Division to examine the relationships between and influences of religious beliefs and contemporary society.

African Studies Quarter

Faculty from political science, ethnic studies, sociology, and romance languages teach coordinated courses dealing with the cultural, political, racial, and literary traditions of Africa to provide an in-depth, integrated understanding of the continent.

Film courses

Another series of courses is based on programs aired on the Public Broadcasting Service, such as *The Ascent of Man*.

OFF-CAMPUS PROGRAMS

National Student Exchange

The National Student Exchange (NSE) is a program that offers students the opportunity to take course work at another college or university in the United States. The program encourages students to experience and learn from different regional and cultural perspectives, and to broaden their educational backgrounds through courses of study that may not be available at their home campus. BGSU is a participating member of this consortium of 50 state-supported colleges and universities.

Any qualified, full-time student may participate for up to one academic year. Out-of-state tuition fees are waived at the host institution, and courses taken at the NSE institution count toward BGSU graduation. The NSE experience is probably most beneficial and appropriate for sophomores and juniors. Interested students should consult with the NSE coordinator about costs, course selection, choice of host university, and planning the best time for the exchange.

Washington Semester

This highly competitive program offers a 15-week experience at The American University, Washington, D.C. It provides qualified students with a learning opportunity in criminal justice, urban affairs, economic policy, American studies, or foreign policy. Interested students can apply through the University Division. The final selection of participants is made by a committee composed of three faculty members from different academic areas and one student who has participated in the Washington Semester experience.

Washington Internships

Through the independent studies program, many BGSU students have participated in internships in legislative, Congressional, agency, and public interest group offices in Washington, D. C., and Columbus, Ohio. Interns typically answer constituent mail, do legislative research and prepare reports, attend meetings, and frequently have the opportunity to participate in campaigns. Students combine the internship with a research project, usually working in the office four and a half days a week and using the remaining time to develop and complete a research paper. This program provides excellent experience for any qualified student, but is particularly valuable for those majoring in prelaw, political science, social studies, journalism, economics, and American studies.

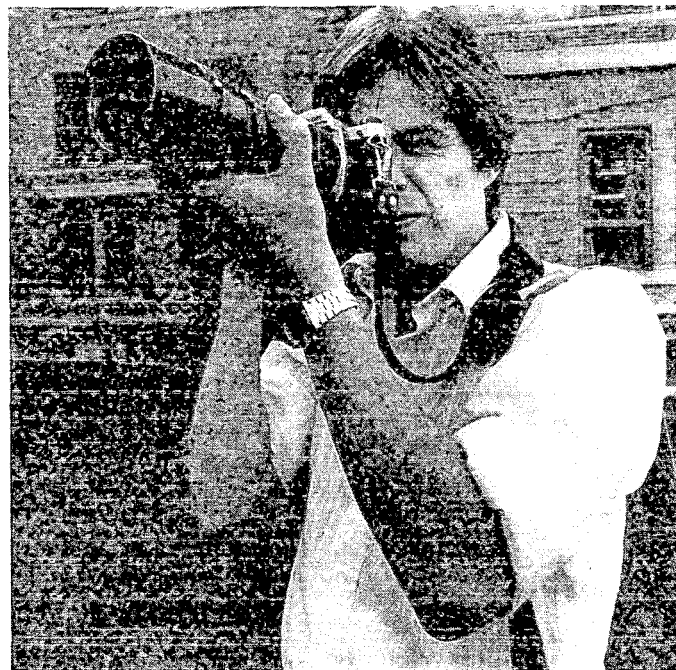
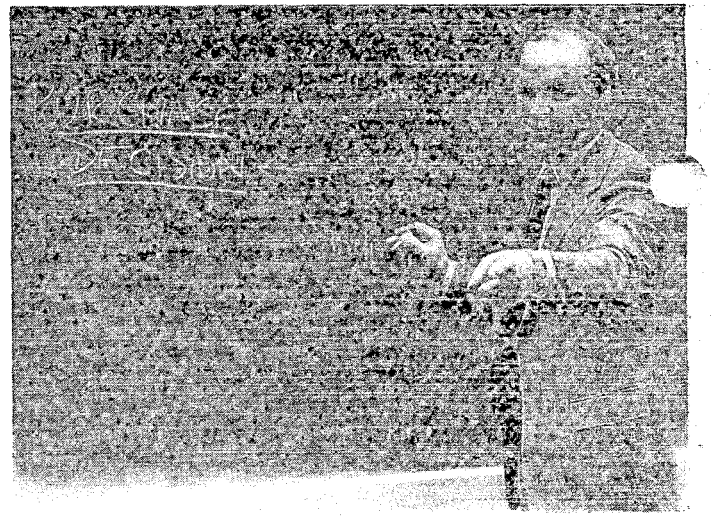
Independent Study

This program enables students to earn from one to 16 credits (on an S/U basis) for special work, travel, or learning experiences not normally handled through regular departmental courses. Working through the University Division, students plan their independent studies projects with faculty supervisors. Some recent projects include:

- Internship with the Democratic National Committee
- Art/travel experience in Central and South America
- Internship with the Argentinian Embassy
- Study of Chinese culture through language
- Fashion merchandising internship in California
- Study of the health and medical conditions of Mexican-American migrants
- Internship with the Maine State Museum

HIGH SCHOOL COLLEGE CREDIT PROGRAM

High school students may enroll in regular University courses and receive college credit by applying and being accepted for the High School College Credit Program. For high school students who possess general or specific academic talent, the program offers an opportunity to take course work which is unavailable at their own institutions. College credit is granted for satisfactory completion of these courses whether or not they are used to complete a student's high school requirements. Interested students may consult with the program coordinator about application requirements and course selection.



COLLEGE OF BUSINESS ADMINISTRATION

Karl E. Vogt, Ph.D., *Dean*, 371 Business Administration Building, 372-2747

Win Tonnesen, Ph.D., *Associate Dean*, 371 Business Administration Building, 372-2747

Marie R. Hodge, M.B.A., *Assistant Dean; Director, College Internship Program*, 371 Business Administration Building, 372-2747

Edwin Bomeli, Ph.D., *Director, Graduate Studies in Business*, 367 Business Administration Building, 372-2488

Gary Roser, M.B.A., *Director, Management Center*, 369 Business Administration Building, 372-2807

William R. Hoskins, D.B.A., *Director of International Business Programs*, 222 Business Administration Building, 372-0222

Department of Accounting and Management Information Systems, Mark Asman, Ph.D., *Chair*, 332 Business Administration Building, 372-2767

Department of Applied Statistics and Operations Research, Robert Patton, Ph.D., *Chair*, 344 Business Administration Building, 372-2363

Department of Business Education, Mearl R. Guthrie, Ph.D., *Chair*, 242 Business Administration Building, 372-2901

Department of Economics, Bevars Mabry, Ph.D., *Chair*, 301 Business Administration Building, 372-2646

Department of Finance and Insurance, Wayne Perg, Ph.D., *Chair*, 201 Business Administration Building, 372-2520

Department of Legal Studies, Milton Wilson, J.D., *Chair*, 253 Business Administration Building, 372-2376

Department of Management, Chan Hahn, Ph.D., *Chair*, 264 Business Administration Building, 372-2946

Department of Marketing, Maurice I. Mandell, D.B.A., *Chair*, 234 Business Administration Building, 372-2041

School of Journalism, Harold Fisher, Ph.D., *Director*, 104 University Hall, 372-2076

Department of Aerospace Studies, Lt. Col. Richard Coppock, M.S., *Chair*, 164 Memorial Hall, 372-2176

Department of Military Science, Col. Duane Root, M.S., *Chair*, 151 Memorial Hall, 372-2476

THE FIELD OF BUSINESS

The business world has grown in complexity in recent years. Significant developments in quantitative decision theory, the behavioral sciences, and computer technology have made it necessary for a person contemplating career objectives in administrative positions to be adequately prepared in a wide variety of related disciplines. Similarly, a future executive must have a high-quality professional education in business theory and practices.

Business is a broad area of human endeavor. Primarily, it is concerned with the production and distribution of goods and services which are needed and desired. Persons who contemplate a career and anticipate successful leadership in business have a great challenge before them.

ACADEMIC OBJECTIVES

The foremost consideration in all curricula in business administration is to provide each student with a broad, liberal education. Thus, many of the degree requirements are in the humanities, the sciences, and the social sciences. The courses in business administration are designed not only to foster professional competency but also to develop the whole individual as a responsible, useful citizen in society.

Professional education in business administration should not be confused with vocational education. These curricula are not designed to train technicians. Rather, they serve to develop the capabilities of students so that they may assume positions of leadership and responsibility in the administration of business. To accomplish these ends, instruction in business administration places emphasis on developing the students' abilities to think and to make decisions.

To provide a sound foundation and broad appreciation of the world of business, a student is required to complete a common core of basic business courses. These courses provide a student with a background in the interrelationships of the various functional areas of business and with a knowledge of the tools necessary for decision-making.

Each curriculum provides the student with an opportunity for examining some particular discipline in sufficient depth to develop an acceptable level of competency in the field. Finally, a substantial amount of latitude is provided in all curricula to permit the student to elect additional courses to round out the total educational experience.

Thus, the curricula in business administration provide the student with: (A) a total educational experience; (B) a breadth of understanding of the business world; (C) a depth of knowledge in a particular business field. The degree in business administration serves as preparation not only for assuming a position of responsibility in business and society but also for graduate study in business administration, law, and public administration.

STANDARDS OF PERFORMANCE AND ACCREDITATION

To meet the challenges of the business world the academic program of the College of Business Administration requires high standards of performance. Programs are designed to provide an intellectual challenge to a student who wishes to assume the responsibility for tomorrow's business leadership.

The College of Business Administration is a fully accredited member of the American Assembly of Collegiate Schools of Business. Such accreditation is given only to schools which maintain the highest standards of performance. Degrees granted by such accredited colleges are widely recognized by both major businesses and graduate schools.

Students of outstanding achievement in business and management may be recognized by Beta Gamma Sigma, the national scholastic honor society. The purposes of Beta Gamma Sigma are to encourage and reward scholarship and accomplishment, to promote the advancement of education in the art and science of business, and to foster integrity in the conduct of business operations.

Credit by transfer from a two-year, fully accredited institution is not accepted for most business courses which require junior or senior standing at Bowling Green. However, should transfer students feel they have sufficient background in the subject matter of any course, they may take an examination for credit in a course, a CLEP test, or successfully complete an advanced course. Such validation techniques result in transfer credit for the course being accepted.

Credit by transfer from a four-year, fully accredited institution is accepted for most courses.

ORGANIZATION OF THE COLLEGE

The College of Business Administration consists of eight departments of instruction in business administration and a School of Journalism. The eight departments — accounting and management information systems, applied statistics and operations research, business education, economics, finance and insurance, legal studies, management, and marketing — offer 22 undergraduate sequences and a comprehensive graduate program covering the major phases of business activity.

The following degrees and majors are offered:

College of Business Administration

Bachelor of Science in Business Administration

Accounting

Administrative management

Advertising

Business pre-law

Economics

Finance

General business

Health care administration
 Human resources management
 Industrial and labor relations
 Insurance
 International business
 Management information systems
 Marketing research
 Operations research
 Procurement and materials management
 Production and operations management
 Public and institutional administration
 Retailing
 Secretarial administration
 Selling and sales management
 Statistics

Bachelor of Science in Economics
 Economics

Associate in Applied Business
 Two-year executive secretarial

Business Administration - Education

School of Journalism

Bachelor of Science in Journalism
 Broadcast journalism
 Magazine journalism
 News-Editorial
 Photojournalism
 Public relations

STUDY ABROAD

The College of Business Administration offers an opportunity to enroll in a five-week summer session at a business school in Nantes, France. Courses are taught in English and carry nine hours credit. Special courses in the French language are optional. The program is contingent upon enrollments. See page 11 for additional information.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

A candidate for the degree of Bachelor of Science in Business Administration must complete the general requirements for graduation listed on page 7 and the following:

1. meet the general education group requirements listed below, preferably in the freshman and sophomore years;
2. meet the professional group requirements and specific requirements for at least one major.

GENERAL EDUCATION GROUP REQUIREMENTS

GROUP I: COMMUNICATION

Each student is required to complete ENG 111 and 112, and four hours of communication electives. If a student is exempt from ENG 111, four additional hours of nonbusiness electives are required. ENG 110 may also be required, but only eight hours of English may be counted toward graduation.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

No requirements; see Group V.

GROUP III: MATHEMATICS, SCIENCE, AND QUANTITATIVE MEASUREMENTS

Each student is required to complete two basic mathematics courses (see professional specialization areas for specific courses); and eight hours of science, or mathematics (MATH 232 and 233), or computer science.

GROUP IV: SOCIAL AND BEHAVIORAL SCIENCES

Each student is required to complete 12 hours chosen from courses in GEOG (except GEOG 125, 126, 127, or 213), HIST, POLS, PSYC, and SOC.

GROUP V: HUMANITIES

Each student is required to complete eight hours of credit from an approved list of humanities courses in the areas of ART, foreign language, literature, music, PHIL, POPC, and

THEA. A list of acceptable courses is available in the College of Business Administration Office or from a faculty adviser.

NON-BUSINESS ELECTIVES

Each student is required to complete 15 or 19 additional hours in nonbusiness fields depending on English placement. An academic adviser assists each student in selecting courses which broaden or deepen the student's general education. Courses chosen must not be in business administration.

PRE-PROFESSIONAL CORE

Each student is required to complete 28 hours in the sophomore year: ACCT 221 and 222; ECON 202 and 203; STAT 211 and 212; and MIS 200.

PROFESSIONAL REQUIREMENTS

Professional Core

Each candidate is required to complete a common core of professional courses. For most majors these courses are: BA 303, FIN 300, MGMT 300, MKT 300, LEGS 301, MGMT 360, OPRE 380, BA 405, and at least two junior-level courses in ECON (see major areas for specific courses as some variations exist).

Major

Each student must complete the requirements for at least one major. Requirements for the majors are listed on the following pages.

Electives

The remainder of the academic program consists of electives to meet the student's specific educational objective. These electives should be selected in consultation with the student's adviser. Some majors specify certain courses which, in the opinion of the faculty, have a special importance. A student may cross college lines in meeting this requirement and take academic work in any of the departments of the University.

THE CURRICULA

The pages which follow show how and when requirements may be met. Whenever possible, 100-level courses should be taken during the freshman year; 200-level courses during the sophomore year; 300-level during the junior year; and 400-level during the senior year. Following these levels is particularly important in core courses. Each of the majors and concentrations within a major is different in its requirements; therefore, each is given in its entirety to permit the student to see the major as an integrated whole and to follow the requirements with ease.

ACCOUNTING

332 Business Administration Building, 372-2767

This is a curriculum for the student who elects accounting as the major. A student must complete the minimum of 24 hours of accounting for the area of specialization. Students who wish to prepare for specialized areas of concentration within the accounting field (such as auditing, taxes, and government; cost and systems; or management advisory service) should elect additional courses in accounting and related areas.

In order to graduate with a major in accounting, a student must attain a grade of "C" or better in all of the following: the introductory courses, ACCT 221 and 222 (or alternatively, in ACCT 320); the five required core courses, ACCT 321, 322, 331, 332, and 351; and the four hours of accounting electives used to complete specialization requirements.

First year (48 hours)

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

STAT 211 and 212 (8)

Electives (15-19)

PEG 100 (3)

MATH 125 or 231 (5)

MIS 200 (4)

Second year (45 hours)

ACCT 221, 222, and 321 (12)

ECON 202 and 203 (8)
 Electives (25)

Third year (48 hours)
ACCT 322, 331, 332, and
351 (16)
LEGS 301 (4)
ECON 303 or 311 (4)
MGMT 300 and 360 (8)

Fourth year (43 hours)
MKT 300 (4)*
ACCT 421, 422, 423, 424,
429, 439, 441, 442, 452,
or 491 (4)**

Electives (hours included above)
Electives should be chosen to meet the following general
education group requirements:

Group I (4)	Group IV (12)
Group III (8)	Group V (8)

ADMINISTRATIVE MANAGEMENT

242 Business Administration Building, 372-2901

This program is designed for the student who wishes to specialize in the planning, organizing, and controlling of office work. This curriculum introduces the student to the administrative functions of records management, office systems and procedures, data processing, and office organization and management. Graduates of this program may obtain employment in a variety of office occupations involved in information processing or management.

<i>First year (48 hours)</i> BUSE 112 or 210 (3) PEG 100 (3) MATH 124 or 131 (5) STAT 211 (4) Other electives (12-16)	ENG 111 and 112 (4-8) MIS 200 (4) MATH 125 or 231 (5) Communication elective (4)
--	---

<i>Second year (45 hours)</i> ACCT 221 and 222 (8) ECON 202 and 203 (8) Electives (16)	BUSE 211, 220, and 230 (9) STAT 212 (4)
---	--

<i>Third year (45 hours)</i> LEGS 301 (4) ECON 303 or 311 (4) MGMT 300 (4) OPRE 380 (4)	ECON 302 or 304 (4) FIN 300 (4) MKT 300 (4) Electives (17)
---	---

<i>Fourth year (45 hours)</i> BA 303 (4)* MGMT 361 and 365 (8); or MGMT 450 and 451 (8)	BUSE 455 (3) MGMT 360* (4) BA 405 (4) Electives (22)
--	---

Electives (hours included above)
Electives should be chosen to meet the following general
education group requirements:

Group I (4)	Group IV (12)
Group III (8)	Group V (8)

ADVERTISING

234 Business Administration Building, 372-2041

This is a marketing curriculum for the student who is interested in a career in advertising in a commercial or industrial establishment or in an advertising agency. For other marketing curricula, see marketing research, retailing, and selling and sales management.

<i>First year (48 hours)</i> ENG 111 and 112 (4-8) MATH 124 or 131 (5) MIS 200 (4) Communication elective (4)	PEG 100 (3) MATH 125 or 231 (5) STAT 211 (4) Other electives (15-19)
---	---

<i>Second year (45 hours)</i> ACCT 221 and 222 (8) STAT 212 (4)	ECON 202 and 203 (8) Electives (25)
---	--

Third year (45 hours)
BA 303 (4)
ECON 302 or 304 (4)
MKT 300, 401, and 410 (12)
MGMT 300 and 360 (8)

Fourth year (45 hours)
LEGS 301 (4)
Electives (21)

ECON 303 or 311 (4)
OPRE 380 (4)
FIN 300 (4)
Electives (5)

BA 405 (4)
MKT 403, 411, 412, and 420
(16)

Electives (hours included above)
Electives should be chosen to meet the following general
education group requirements:

Group I (4)	Group IV (12)
Group III (8)	Group V (8)

BUSINESS PRE-LAW

253 Business Administration Building, 372-2376

This is a curriculum to prepare the student for professional training in a law school, recognizing the business and economic emphasis of the practice of law while providing the breadth of training and the philosophical background which is conducive to success in a law school program.

<i>First year (48 hours)</i> ENG 111 and 112 (4-8) MATH 124 or 131 (5) MIS 200 (4) STAT 211 (4) Electives (15-19)	PEG 100 (3) MATH 125 or 231 (5) ENG 200, 261, 262, or 263 (4)
--	---

<i>Second year (45 hours)</i> ACCT 221 and 222 (8) STAT 212 (4) Electives (21)	ECON 202 and 203 (8) ENG 207 (4)
---	-------------------------------------

<i>Third year (45 hours)</i> BA 303 (4) ECON 303 or 311 (4) MGMT 300 and 360 (8) ECON 302 or 304 (4) Elective (5)	LEGS 301 and 305 (8) FIN 300 (4) MKT 300 (4) OPRE 380 (4)
--	--

<i>Fourth year (45 hours)</i> BA 405 (4) LEGS at 300 or 400 level (4)	LEGS 421 and 491 (8) Electives (29)
---	--

Electives (hours included above)
Electives should be chosen to meet the following general
education group requirements:

Group I (4)	Group IV (12)
IPCO 204 suggested	HIST 205, 391, 432;
Group III (8)	and/or POLS 201
Group V (8) (must include ENG 200, 261, 262, or 263; PHIL 103 suggested)	suggested)

ECONOMICS

301 Business Administration Building, 372-2646

Areas of specialization in economics (see below) are programs of related courses designed to provide the student with: (A) those occupational skills in each specialized field sufficient to analyze its unique, technical economic problems; (B) a foundation upon which the future executive can develop capacities to formulate and analyze policy; (C) a background ideally suited for advanced professional training in law, administration, or business, or for graduate studies in economics. Students are encouraged, in consultation with their academic advisers, to select areas of specialization related to their individual career goals.

<i>First year (48 hours)</i> ENG 111 and 112 (4-8) MATH 124 or 131 (5) STAT 211 (4) Communication elective (4)	PEG 100 (3) MATH 125 or 231 (5) MIS 200 (4) Other electives (15-19)
--	--

<i>Second year (45 hours)</i> ACCT 221 and 222 (8) STAT 212 (4)	ECON 202 and 203 (8) Electives (25)
---	--

*Must complete before registering for BA 405.

**A student planning to take the CPA examination is encouraged to elect ACCT 421, 422, 423, 429, 441, 442, or 452. A minimum of 36 quarter hours of accounting is required to qualify as a candidate for the CPA examination in Ohio.

*Must complete before registering for BA 405.

Third year (45 hours)

ECON 302 and 303 (8)

FIN 300 (4)

MGMT 300 and 360 (8)

Economics area of
specialization (8)

BA 303 (4)

LEGS 301 (4)

MKT 300 (4)

Elective (5)

Fourth year (45 hours)

ECON 400, or 401, or 402 (4)

Economics area of
specialization (16)

BA 405 (4)

Electives (21)

Electives (hours included above)Electives should be chosen to meet the following general
education group requirements:

Group I (4)

Group III (8)

Group IV (12)

Group V (8)

Area of specialization (24 hours)Each sequence may include up to 8 hours of courses from
outside the Economics Department. In addition to the
following list, students may, with their adviser's approval,
design under the general economics area a program tailored
to individual career needs. The following sequences are
recommended:**Business economics**ECON 304, 402**, 404, 471,
and/or ECON elective (16)BA 406, ACCT 331, and/or
LEGS 417 (8)**Quantitative economics and forecasting**ECON 401**, 402**, 404, 414,
and/or ECON elective (16)

STAT 315 and 404 (8)

Urban real estateECON 311, 332, 336, 361,
459, and/or 461 (16-20)FIN 342, INS 465, and/or
LEGS 415 (4-8)**Urban/regional planning**GEOG 402, 426; POLS 421,
430; SOC 413; and/or
HIST 403 (4-8)ECON 332, 336, 361, 459,
and/or 460 (16-20)**Monetary economics and financial institutions**ECON 311, 351, 414, and
452 (16)

FIN 360 and 461 (8)

Government financeECON 331, 332, 336, and 414
(16)POLS 331, 332, 459, and/or
ACCT 423**International trade and development**BA 390, LEGS 406, MGMT
471, MKT 450, and/or
ACCT 424 (8)ECON 351, 371, 451, and 452
(16)**Comparative economic development**ECON 351, 371, 372, 453,
and/or 474 (16-20)LEGS 305; POLS 423, 460;
and/or SOC 419 (4-8)**Labor economics and relations**ECON 321, 322, 323, 423,
and/or 424 (16-20)LEGS 419, MGMT 361, HIST
405, and/or PSYC 452
(4-8)**Industrial regulation**ECON 341, 425, 435, 447,
and/or 471 (16-20)BA 403 and/or LEGS 421
(4-8)**General economics**ECON 473 and ECON
electives (24)**Other programs**The College of Business also offers the Bachelor of Science
in Economics degree. Programs in economics also are
available through the College of Arts and Sciences and the
College of Education.**May not count as part of 24 hour area of concentration if taken to satisfy the professional
core requirement.**FINANCE**

201 Business Administration Building, 372-2520

This is a curriculum for a student who is interested in the
financial management of a business enterprise, a financial
institution such as a commercial bank or savings and loan
association, mutual funds, an insurance company, or
investment analysis and management.**First year (48 hours)**

ENG 111 and 112 (4-8)

MIS 200 (4)

MATH 125 or 231 (5)

Communication elective (4)

PEG 100 (3)

MATH 124 or 131 (5)

STAT 211 (4)

Other electives (15-19)

Second year (45 hours)

ACCT 221 and 222 (8)

STAT 212 (4)

ECON 202 and 203 (8)

Electives (25)

Third year (45 hours)

ACCT 321 and 322 (8); or

ACCT 331 and 332 (8); or

ACCT 327 and 337 (8)

ECON 303 or 311 (4)

FIN 300, 330, and 360 (12)

Elective (1)

BA 303 (4)

LEGS 301 (4)

MGMT 300 (4)

ECON 302 or 304 (4)

MKT 300 (4)

Fourth year (45 hours)

FIN 450 (4)

OPRE 380 (4)*

Other electives (17)

MGMT 360 (4)*

BA 405 (4)

FIN electives (12)

Electives (hours included above)

Group I (4)

Group III (8)

Group V (8)

Group IV (12)

Finance (12) (must include

FIN 342, 433, 436, 452,

and/or 461)

Other electives (18) (LEGS)

413, 415, 420; ACCT 439;

BA 403; MKT 420 OPRE

480; ECON 303, 331, 404,

414, 451, 459; any 400-

level FIN course; any INS

course; and/or any MGMT

course suggested)

GENERAL BUSINESS

371 Business Administration Building, 372-2747

This is a curriculum for students who desire a broad
business background with a minimum of specialization, or
who desire a program tailored to specific needs.**First year (48 hours)**

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

STAT 211 (4)

Communication elective (4)

PEG 100 (3)

MATH 125 or 231 (5)

MIS 200 (4)

Other electives (15-19)

Second year (45 hours)

ACCT 221 and 222 (8)

STAT 212 (4)

ECON 202 and 203 (8)

Electives (25)

Third year (45 hours)

BA 303 (4)

ECON 302 or 304 (4)

FIN 300 (4)

MKT 300 (4)

Electives (9)

LEGS 301 (4)

ECON 303 or 311 (4)

MGMT 300 and 360 (8)

OPRE 380 (4)

Fourth year (45 hours)

Area of specialization (24)

(selected from ACCT,

BUSE, ECON, FIN, INS,

MGMT, MIS, MKT, OPRE,

and/or STAT with no more

than 12 hours in any one

area; select only courses

that may be used to fulfill

requirements in the area

of specialization)

BA 405 (4)

Electives (17)

May not be combined with any other major for a double
major.**Other programs**A general business administration program is offered also
through the College of Arts and Sciences.

HEALTH CARE ADMINISTRATION

371 Business Administration Building, 372-2747

This is an area of undergraduate studies which will provide a variety of career opportunities in community hospitals, extended care facilities, state and federal agencies, voluntary health agencies, and in various services found in health care organizations.

First year (48 hours)

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

STAT 211 (4)

Communication elective (4)

Second year (45 hours)

ACCT 221 (8)

STAT 212 (4)

Third year (45 hours)

BA 303 (4)

ECON 303 or 311 (4)

FIN 300 (4)

MKT 300 (4)

Electives (9)

Fourth year (45 hours)

BA 325, 405, and 429 (16)

FIN 425 (4)

PEG 100 (3)

MATH 125 or 231 (5)

MIS 200 (4)

Other electives (15-19)

ECON 202 and 203 (8)

Electives (25)

LEGS 301 (4)

ECON 302 or 304 (4)

MGMT 300 and 360 (8)

OPRE 380 (4)

LEGS 425 (4)

ACCT 425 (4)

Electives (17)

In addition to the major, the student must also pursue intensive studies (a minimum of 20 quarter hours) in selected areas of business management such as staff planning and research, personnel administration, accountancy and controllership, and general supervision. (These are taken in the junior and senior years.)

The internship component of the program will provide the student with practical experience and participation in the particular health care institutions and agencies in which he or she may be professionally interested.

HUMAN RESOURCE MANAGEMENT

364 Business Administration Building, 372-2946

This is a curriculum to prepare a student to enter the field of human resources management. Foundation courses examine theories of organization, organizational behavior, individual and interpersonal behavior, organizational assessment and planning for change. A student may select one of four areas of concentration: personnel management, organization development, production/operations management, or purchasing management. Area concentration courses in personnel management, organization development, production management, and purchasing management prepare a student for entry-level positions within these fields.

First year (48 hours)

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

MIS 200 (4)

Communication elective (4)

Second year (45 hours)

ACCT 221 and 222 (8)

STAT 212 (4)

Third year (48 hours)

BA 303 (4)

ECON 303 or 311 (4)

FIN 300 (4)

MKT 300 (4)

Elective (4)

Fourth year (44 hours)

BA 405 (4)

MGMT 330 and 430 (8); or

MGMT 450 and 451 (8), or

MGMT 466 and 468 (8), or

MGMT 441, 442, and/or

445 (8)

PEG 100 (3)

MATH 125 or 231 (5)

STAT 211 (4)

Other electives (15-19)

ECON 202 and 203 (8)

Electives (25)

LEGS 301 (4)

ECON 304 (4)

MGMT 300, 360, 365, and

461 (16)

OPRE 380 (4)

MGMT 465 (4)

Business elective (4) (ECON)

321, 423; LEGS 419;

MGMT 450, 451, or 466

suggested)

Other electives (24)

Electives (hours included above)

Group I (4) (IPCO 203, 205,

306, or 307)

Group IV (12) (PSYC 201,

302, 311, 352, 411, 453,

454, 456, 457; SOC 101,

301, 311, 318, 415, 416,

and/or 418 suggested)

Group III (8)

Group V (8) PHIL 103

suggested

INDUSTRIAL AND LABOR RELATIONS

301 Business Administration Building, 372-2646

This is an interdisciplinary program designed to prepare a student for work in industrial relations departments in corporations, government agencies, and other organizations. This program will provide the student with a series of courses in the three areas of personnel, labor relations, and the legal aspects of industrial relations.

First year (48 hours)

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

STAT 211 and 212 (8)

Communication elective (4)

Second year (45 hours)

ACCT 221 and 222 (8)

Electives (29)

Third year (45 hours)

ECON 302 or 304 (4)

ECON 321 (4)

LEGS 301 (4)

MGMT 300 and 360 (8)

OPRE 380 (4)

MKT 300 (4)

ECON 303 or 311 (4)

Elective (1)

PEG 100 (3)

MATH 125 or 231 (5)

MIS 200 (4)

Other electives (11-15)

ECON 202 and 203

MGMT 361 or 450 (4)

(students who take MGMT

361 cannot take MGMT

450 and/or 451. Human

resource management

majors cannot take MGMT

361.)

FIN 300 (4)

BA 303 (4)

Fourth year (45 hours)

Three courses chosen from

the following, but no more

than two courses in any

one field: ECON 322, 323,

423; LEGS 414; MGMT

365, 451, 461 (12)

LEGS 419 (4)

BA 405 (4)

Electives (25)

Electives (hours included above)

Group I (4)

Group IV (12)

Group III (8)

Group V (8)

INSURANCE

201 Business Administration Building, 372-2520

This is a curriculum for the student who wishes to prepare for a career in the field of life insurance or property and casualty insurance.

First year (48 hours)

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

MIS 200 (4)

Communication elective (4)

Second year (45 hours)

ACCT 221 and 222 (8)

STAT 212 (4)

Third year (45 hours)

BA 303 (4)

ECON 311 (4)

FIN 300 (4)

MGMT 300 (4)

OPRE 380 (4)

Fourth year (45 hours)

MGMT 360 (4)*

LEGS 413 or 414, or

FIN 330 (4)

Electives (17)

PEG 100 (4)

MATH 125 or 231 (5)

STAT 211 (4)

Other electives (15-19)

ECON 202 and 203 (8)

Electives (25)

LEGS 301 (4)

ECON 302 or 304 (4)

INS 300 and 465 (8)

MKT 300 (4)

Elective (5)

BA 405 (4)

INS 465, 466, 469, and 470

(16)

*Must complete before registering for BA 405.

Suggested electives include: ECON 321, 361, 460, and 461;
FIN 330, 342, 360, 433, and 436; LEGS 413 and 414.

This is a curriculum designed to provide students with an international perspective. An international concentration will help students prepare for a career with a multinational company or other organizations concerned with international business activities.

Fourth year (37 hours)
OPRE 487, 488, or 489 (4)
OPRE 482 (4)
Electives (21)

BA 405 (4)
STAT 402, 404, 406, 408,
410, 412, or 414 (4)

Electives (hours included above)

Group I (4)
Group IV (12)
Group III (8)
Group V (8)

PROCUREMENT AND MATERIALS MANAGEMENT

264 Business Administration Building, 372-2946

This is a curriculum for the student who is interested in the procurement and materials management areas. The course of study includes an integrated approach to procurement, logistics, and materials management functions and related activities.

First year (48 hours)

ENG 111 and 112 (4-8)
MIS 200 (4)
MATH 125 or 231 (5)
Communication elective (4)
PEG 100 (3)
MATH 124 or 131 (5)
STAT 211 (4)
Other electives (15-19)

Second year (45 hours)

ACCT 221 and 222 (8)
STAT 212 (4)
ECON 202 and 203 (8)
Electives (25)

Third year (45 hours)

BA 303 (4)
LEGS 301 (4)
ECON 304 (4)
OPRE 380 (4)
MKT 300 (4)
ECON 303 or 311 (4)
FIN 300 (4)
MGMT 300, 330, and 360 (12)
Elective (5)

Fourth year (45 hours)

MGMT 430, 439, and 442 (12)
BA 405 (4)
Other electives (21)
MKT 340 (4)
MGMT 361, ECON 341, or
DESN 104 (4)

Electives (hours included above)

Group I (4)
Group IV (12) (PSYC 201;
POLS 101, 201; and/or any
suitable HIST course
suggested)
Electives (MATH 232, 332;
DESN 104; MGMT 441;
LEGS 414, 420 suggested)
Group III (8) (laboratory or
non-laboratory science
suggested)
Group V (8) (list of
suggested courses
available in dean's office)

PRODUCTION AND OPERATIONS MANAGEMENT

264 Business Administration Building, 372-2946

This is a curriculum designed for the student preparing for a career in production management. This curriculum introduces the student to the concepts and methods used in the production and operations areas.

First year (48 hours)

ENG 111 and 112 (4-8)
MIS 200 (4)
MATH 125 or 231 (5)
Communication elective (4)
PEG 100 (3)
MATH 124 or 131 (5)
STAT 211 (4)
Other electives (15-19)

Second year (45 hours)

ACCT 221 and 222 (8)
STAT 212 (4)
ECON 202 and 203 (8)
Electives (25)

Third year (45 hours)

BA 303 (4)
ECON 303 or 311 (4)
MGMT 300, 360, and 441 (12)
OPRE 380 (4)
LEGS 301 (4)
ECON 304 (4)
FIN 300 (4)
MKT 300 (4)
Electives (5)

Fourth year (45 hours)

MGMT 442, 445, and 449 (12)
BA 405 (4)
Electives (21)
MGMT 331 and 361 (8); or
MGMT 330 and 430 (8); or
MGMT 365 and 447 (8)

Electives (hours included above)

Group I (4)
Group III (8)
Group IV (12) (PSYC 201,
SOC 101, and/or POLS
101 suggested)
Group V (8)
Other electives (PSYC 305,
PSYC 352, POLS 421,
POLS 422, SOC 301,
and/or SOC 415, MGMT
330, 361, 365, 430, and
447; ACCT 337; OPRE
480; and/or MATH 232
suggested)

PUBLIC AND INSTITUTIONAL ADMINISTRATION

371 Business Administration Building, 372-2747

This is an area of undergraduate study which is keyed to management and administration in the non-business setting. The program will relate to management career opportunities in a variety of public or non-profit institutions. In addition to the major, the student must pursue cross-disciplinary studies (20 hours) designed to provide the management specialist with vital understandings of public policy problems. The options from which a student may select are: policy and administration, environmental administration, criminal justice, mass media and public opinion, and urban studies.

First year (48 hours)

ENG 111 and 112 (4-8)
MATH 124 or 131 (5)
MIS 200 (4)
Communication elective (4)
PEG 100 (3)
MATH 125 or 231 (5)
STAT 211 and 212 (8)
Other electives (11-15)

Second year (45 hours)

ACCT 221 and 222 (8)
ECON 202 and 203 (8)
Electives (including
prerequisites for upper-
level courses required in
various public policies and
affairs options) (29)

Third year (48 hours)

BA 303 (4)
FIN 300 (4)
MKT 300 (4)
OPRE 380 (4)
ECON 302 or 304 (4)
POLS 302 (4)
LEGS 301 (4)
ECON 303 or 311 (4)
ECON 336 (4)
MGMT 300, 360, and 365 (12)

Fourth year (44 hours)

MKT 404 (4)
ACCT 423 (4)
Electives (12)
ECON 331 or 332 (4)
Public policy and affairs
option (20)

Public policy and affairs (20 hours — included above). Each student will select from the following options to complete 20 hours in public policy and affairs:

Policy and administration

POLS 421 (4)
POLS 331, 332, 345, 422,
423, or 430 (4)
MGMT 361 and 460 (8)
SOC 321, 402, 416, or 418 (4)

Environmental administration

ECON 435 (4)
MGMT 331 (4)
LEGS 431 (4)
GEOG 331, 442; POLS 335;
SOC 412; and/or BA 437 (8)

Criminal justice

Any LEGS courses (8)
SOC 441 (4)
SOC 340, 341, 352, 442, 443;
and/or POLS 347 (8)

Mass media and public opinion

JOUR 103 (4)
RTVF 260 (4)
RTVF 460, POLS 341, or
POPC 260 (4)
POLS 443 (4)
JOUR 312, 340, 402, 433, or
435 (4)

Urban studies

ECON 361 and 459 (8)
SOC 316, 321, 412, or 413 (4)
POLS 430 (4)
ECON 460, GEOG 426, or
BA 403 (4)

RETAILING

234 Business Administration Building, 372-2041

This is a marketing curriculum for the student who wishes to prepare for managerial responsibilities in retailing. For other marketing curricula, see advertising, marketing research, and selling and sales management.

First year (48 hours)

ENG 111 and 112 (4-8)

STAT 211 (4)

MATH 124 or 131 (5)

Communication elective (4)

Second year (45 hours)

ACCT 221 and 222 (8)

STAT 212 (4)

Third year (45 hours)

BA 303 (4)

ECON 302 or 304 (4)

MKT 300, 401, and 430 (12)

MGMT 300 and 360 (8)

Fourth year (45 hours)

MKT 403, 410, 420, and 436 (16)

Electives (21)

Electives (hours included above)

Electives should be chosen to meet the following general education group requirements:

Group I (4)

Group III (8)

PEG 100 (3)

MIS 200 (4)

MATH 125 or 231 (5)

Other electives (15-19)

ECON 202 and 203 (8)

Electives (25)

FIN 300 (4)

ECON 303 or 311 (4)

OPRE 380 (4)

Elective (5)

LEGS 301 (4)

BA 405 (4)

Group IV (12)

Group V (8)

SECRETARIAL ADMINISTRATION

242 Business Administration Building, 372-2901

This is a curriculum for a student desiring to prepare for administrative level secretarial responsibilities in business or industrial establishments, professional offices, or government agencies. The student develops competency in secretarial skills, office procedures and management, word processing, data processing, communication, and decision making.

First year (48 hours)

ENG 111 and 112 (4-8)

MIS 200 (4)

MATH 125 or 231 (5)

Communication elective (4)

Second year (45 hours)

ACCT 221 and 222 (8)

ECON 202 and 203 (8)

Electives (16)

Third year (45 hours)

BUSE 312**, 313, and 314 (7)

ECON 302 or 304 (4)

FIN 300 (4)

MKT 300 (4)

PEG 100 (3)

STAT 211 (4)

MATH 124 or 131 (5)

Electives (15-19)

BUSE 210**, 211, and 220 (9)

STAT 212 (4)

LEGS 301 (4)

ECON 303 or 311 (4)

MGMT 300 (4)

OPRE 380 (4)

Electives (10)

BUSE 401 and 455 (8)

BA 405 (4)

Fourth year (45 hours)

BA 303 (4)*

MGMT 360 (4)*

Electives (25)

Electives (hours included above)

Electives should be chosen to meet the following general education group requirements:

Group I (4)

Group III (8)

Group IV (12)

Group V (8)

Other Programs

A two-year executive secretarial program leading to the Associate in Applied Business degree also is offered through the College of Business Administration.

SELLING AND SALES MANAGEMENT

234 Business Administration Building, 372-2041

This is a marketing curriculum for the student who is interested in salesmanship or sales management. For other marketing curricula, see advertising, marketing research, and retailing.

First year (48 hours)

ENG 111 and 112 (4-8)

MATH 124 or 131 (5)

MIS 200 (4)

Communication elective (4)

Second year (45 hours)

ACCT 221 and 222 (8)

STAT 212 (4)

Third year (45 hours)

BA 303 (4)

ECON 302 or 304 (4)

MKT 300, 340, and 401 (12)

FIN 300 (4)

Fourth year (45 hours)

MKT 403 and 410 (8)

BA 405 (4)

LEGS 301 (4)

Electives (hours included above)

Electives should be chosen to meet the following general education group requirements:

Group I (4)

Group III (8)

PEG 100 (3)

MATH 125 or 231 (5)

STAT 211 (4)

Electives (15-19)

ECON 202 and 203 (8)

Electives (25)

ECON 303 or 311 (4)

OPRE 380 (4)

MGMT 300 and 360 (8)

Electives (13)

MKT 420 and 441 (8)

Electives (13)

STATISTICS

344 Business Administration Building, 372-2363

This is a program designed for a student with a good mathematics background. It is an excellent preparation for graduate study in any area. This curriculum is also for the student who is interested in a career in statistical analysis and research in government or business.

First year (48 hours)

ENG 111 and 112 (4-8)

PEG 100 (3)

MIS 200 (4)

Communication elective (4)

MATH 131, 231, and 232 (15)

STAT 211 and 212 (8)

Electives (6-10)

Second year (44 hours)

ACCT 221 and 222 (8)

MATH 233 (4)

ECON 202 and 203 (8)

Electives (20)

STAT 315 (4) (offered only fall quarter; should be taken soon after STAT 212; junior standing not necessary)

Third year (48 hours)

BA 303 (4)

ECON 303 or 311 (4)

MGMT 300 (4)

STAT 402 (4)

ECON 302 or 304 (4)

Elective (4)

LEGS 301 (4)

FIN 300 (4)

MKT 300 (4)

STAT elective (4)***

OPRE 380 (4)

MGMT 360 (4)

Fourth year (45 hours)

BA 405 (4)

Electives (33)

STAT electives (8)***

Electives (hours included above)

Electives should be chosen to meet the following general education group requirements:

Group I (4)

Group III (8)

Group IV (12)

Group V (8)

Other electives (18) MATH 332, 333, 441, and 442; ECON 402 and 404; OPRE 480, 482, 485, 487, 488, and 489. For further information, a student should consult an adviser.

Other programs

Two programs in statistics are offered by the College of Arts and Sciences.

*Must complete before registering for BA 405.

**A student with insufficient or no training in shorthand or typewriting must elect the beginning or intermediate course.

***The statistics electives must be chosen from STAT 404, 406, 408, 410, 412, and 414. One of these electives must be STAT 406 or STAT 410.

BACHELOR OF SCIENCE IN ECONOMICS

301 Business Administration Building, 372-2646

This flexible program is especially suited for the student who wishes to combine a major in economics with concentrated study in one or more other disciplines. The program can easily be adapted to accommodate a major in a cognate field to economics, and hence it is ideally suited for those seeking a dual major in such disciplines as education, geography, sociology, political science, history, mathematics, or psychology. Because economics is the science of business, students who wish to combine a major in economics with one in such functional fields of business as accounting, finance, marketing, or management will find that the Bachelor of Science in Economics also permits maximum freedom for the individual's study of business applications. This program is designed to provide students with a meaningful educational experience that stresses professional training in economics, but which recognizes the multidimensional demands placed upon practicing economists in a constantly changing society. It seeks, through an adaptable structure, to provide the student with the necessary training for employment in a wide variety of occupations in business or government in which the skills of the economist are especially useful, or for continued study in professional schools or at the graduate level in economics or business.

A candidate for the Bachelor of Science in Economics must complete the general requirements for graduation listed on page 7 and meet the group requirements listed below.

GENERAL EDUCATION GROUP REQUIREMENTS

GROUP I: COMMUNICATION

Each student is required to complete ENG 111 and 112. If a student is exempt from ENG 111, four additional hours of electives are required. ENG 110 may also be required, but only eight hours of ENG may be counted toward graduation. SPCH 102 is recommended but not required.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

No requirements; See Group V.

GROUP III: MATHEMATICS, SCIENCE, AND QUANTITATIVE MEASUREMENTS

Each student is required to complete MATH 124 or 131, and MATH 125 or 231, STAT 211 and 212; plus 12 hours from MATH (except 241, 242, 243, 244, or 245), CS, MIS, and/or the biological and physical sciences.

GROUP IV: SOCIAL AND BEHAVIORAL SCIENCES

Each student is required to complete ECON 202 and 203 plus 12 hours of social sciences outside ECON.

GROUP V: HUMANITIES

Each student is required to complete PHIL 103 or 303. Eight hours of credit must be earned in the areas of ART, foreign languages, literature, music, PHIL, and THEA. A list of acceptable courses is available in the Department of Economics office.

Major and cognate concentration

Each student is required to complete a major in economics consisting of ECON 302, 303, 473, four hours of quantitative economics (ECON 400, 401, or 402) and 32 additional hours of ECON or approved, related courses. To complete the professional area of study a cognate concentration of 20 hours must be selected from the areas of business administration, arts and sciences, or education, after consultation with and approval of the program adviser.

Electives

The remainder of the academic program is completed with electives selected by the student in consultation with the program adviser. Depending upon his or her interests and career objectives, a student may select courses from any area of the University in meeting this requirement.

Other programs

A major in economics also is offered as part of the Bachelor of Science in Business Administration degree. Programs in economics also are offered by the College of Arts and Sciences and College of Education.

ASSOCIATE IN APPLIED BUSINESS

242 Business Administration Building, 372-2901

A student interested in secretarial administration may prefer a shorter program than the four-year curriculum leading to the Bachelor of Science in Business Administration. Upon completion of this two-year executive secretarial program, the student receives the Associate in Applied Business degree. If students should decide to continue their education after completing one or two years of this program, they may apply full credit for all courses satisfactorily completed toward the four-year degree program in secretarial administration.

A candidate for an Associate in Applied Business degree must complete the general requirements listed on page 8 and complete, at Bowling Green immediately before graduation, at least 45 of the 93 hours required.

First year (48 hours)

ENG 111 and 112 (4-8)	PEG 100 (3)
BA 102 (4)	BUSE 111, 112, 213, 214, and
BUSE 101, 210, 211, 220, and	215 (15)**
230 (16)	Electives (2-6)

Second year (45 hours)

ACCT 221 and 222 (8)	ECON 200 or 202 (4)
BA 303 (4)	LEGS 301 (4)
BUSE 240, 311, 312, 314,	Electives (4-6)
321, and 401 (19)	

Suggested electives include BUSE 335, ECON 203, HOEC 105, POLS 201, SPCH 102, humanities, MATH, and sciences.

Electives

**A student who has had the beginning-level courses in typewriting and/or shorthand in high school should enroll in the advanced-level courses. The student with two semesters of high school typewriting and/or shorthand should enroll in BUSE 112 and/or BUSE 214. The student with four semesters of high school typewriting and/or shorthand should enroll in BUSE 210 and/or BUSE 215. A student who chooses to enroll in lower-level courses does not receive credit toward the two-year program for such courses. A student who enrolls in the advanced courses in typewriting and/or shorthand must substitute electives for the beginning courses to complete a minimum of 93 hours for graduation.

Other programs

A four-year program in secretarial administration is offered by the College of Business Administration leading to the Bachelor of Science in Business Administration degree. Other two-year degree programs are offered by Firelands College.

BUSINESS ADMINISTRATION-EDUCATION

242 Business Administration Building, 372-2901

A candidate who has met all the requirements for the degree of Bachelor of Science in Business Administration also may qualify for the degree of Bachelor of Science in Education and for an Ohio teaching certificate by completing a combined curriculum including the general and specific graduation requirements for each college.

The student who desires to pursue the combined program must:

1. Complete at least two quarters as a full-time student at BGSU with a 3.0 accumulative grade point average or better.
2. Upon completion of the above requirement, petition the board of appeals of the College of Education and the College of Business Administration to request registration in both colleges.
3. Complete 30 credit hours beyond the 183 hours required for graduation with a bachelor's degree in one college.
4. Complete the comprehensive major in business education or the distributive education major.
5. Complete PSYC 201, EDFI 302, and appropriate methods courses, as well as meet the group requirements in general education and participate in a quarter of professional concentration which includes student teaching (EDCO 331).

A student interested in teaching business or distributive education in high school should consult with the Department of Business Education in planning the program.

School of Journalism

Harold Fisher, *Director*, 104 University Hall, 372-2076

THE FIELD OF JOURNALISM

Modern journalism encompasses the mass communications media — newspapers, consumer magazines, business and industrial publications, technical periodicals, trade and professional publications, radio and television. Needed in a highly-diversified profession are trained news reporters and editors for weeklies, dailies, the wire services, radio and television; specialists in photojournalism; public relations practitioners; editors for a wide range of magazines; writers in special fields such as science, business, education, medicine, politics; and competent administrators to manage the editorial, advertising, and business functions of publications and other mass communications services.

The student who plans a career in professional journalism must have a broad education based on the social sciences, humanities, and natural sciences. He or she must understand the social, political, and economic role of the mass media in a democratic society. The student must be skilled in the professional techniques demanded by employers. To provide the opportunity to achieve these goals is the purpose of the School of Journalism.

CAMPUS MEDIA

The *BG News*, the four-times weekly campus newspaper (106 University Hall, 372-2003), provides opportunities to gain experience in reporting, editing, advertising, and management. In addition, a student has an opportunity to work on the *Key*, BGSU's yearbook (310 Student Services Building, 372-0086). Both of these publications are published under the supervision of a student-faculty committee. Other publications include *Syzygy*, a campus-town magazine; and *Obsidian* and *The Gavel*, newspapers aimed at special student interests. Participation on these publications is not limited to journalism students. Students also prepare newscasts for the University's radio and television stations, WFAL-AM, WBGU-FM, and WBGU-TV.

TRAINING AND FACILITIES

The School of Journalism has laboratories for reporting and editing, photography, and graphics of communication. A field practice requirement provides for professional training for a qualified major on the staff of a daily or weekly newspaper, magazine, radio station, college news bureau, or public relations department of a business or industry.

ACCREDITATION AND PROFESSIONAL ASSOCIATIONS

The School of Journalism has four of its programs accredited by the American Council on Education for Journalism. These are: broadcast journalism, news-editorial, photojournalism, and public relations. The school has undergraduate chapters of three national organizations dedicated to professional interest in the field. They are Sigma Delta Chi, a society of journalists open to men and women; Women in Communications; and Public Relations Student Society of America, an affiliate of the national PRSA. The school also has a chapter of Kappa Tau Alpha, the national journalism honor society. Two local organizations, the Benjamin Franklin Society and the Radio-TV News Association, are for students interested in magazine publishing and broadcast journalism, respectively. The school is a recipient of *Reader's Digest* Foundation funds which pay travel expenses for a student researching a story away from the campus. Contacts with numerous professional organizations are maintained through individual faculty memberships. The School of Journalism serves as secretariat for the Northern Ohio Scholastic Press Association and the Northern Ohio Newspaper Association. The school also holds memberships in the American Association of Schools and Departments of Journalism and the American Society of Journalism School Administrators.

BACHELOR OF SCIENCE IN JOURNALISM

A candidate for the degree of Bachelor of Science in Journalism must complete the following requirements for graduation in addition to those listed on page 7.

1. complete a course in beginning typewriting (a student may be excused from the typewriting requirement by passing a proficiency test) — this course is normally taken during the freshman year;
2. complete at least 45 quarter hours in journalism (48 hours for those following the broadcast journalism sequence);
3. complete 75 quarter hours of general requirements as listed below;
4. complete 18 quarter hours in the core journalism courses listed below (including two hours of JOUR 412) and 28 or more quarter hours in a specific sequence (no more than 54 quarter hours in journalism may be counted toward a Bachelor of Science in Journalism degree);
5. complete a minor of at least 30 quarter hours in one field other than journalism, of which 20 quarter hours must be in 300- and 400-level courses. (Choice of a minor field should be made in consultation with the student's adviser after careful consideration of the individual's career goals. An interdepartmental minor is encouraged but must be approved by the director of the School of Journalism.)
6. earn a grade of "C" or better in all specifically required sequence courses (other than electives) including JOUR 402 and the respective senior seminar.

SPECIALIZATION: FIVE SEQUENCES

In addition to other requirements, each journalism major chooses one of five areas of specialization called sequences. The news-editorial sequence is generally associated with training for reporting and editing positions on weekly or daily newspapers and the wire services. Photojournalism combines skills in writing and photography to convey a message in words and pictures. Public relations includes inter-group communications and relating the interests of business, industry, government, and public and private institutions to each other and to society. Broadcast journalism aims at competence in the electronic media of radio and television. Magazine journalism is concerned with the writing, editing, and publishing of these media. A student interested in teaching should see the requirements for a journalism major or minor in the College of Education.

MATRICULATION INTO JOURNALISM SEQUENCES

Before a student can be fully matriculated into degree-granting sequences of the School of Journalism, he or she must:

1. attain a combined average of at least 2.5 ("C+") in JOUR 103, 105, and 300.
2. attain an all-university accumulative grade point average of 2.25 or better;
3. pass a standardized test in English usage prepared by the School of Journalism (this is required before a student may enroll in JOUR 300);
4. if transferring into the journalism program at Bowling Green, have a 2.25 over-all accumulative grade point average (2.5 for transfers from other universities); and pass or give evidence of passing an English usage test equivalent to the one in current use in the School of Journalism;
5. and attain a 2.5 grade point average in journalism courses and a 2.25 over-all accumulative grade point average before registering for JOUR 412, a course required for graduation.

GENERAL EDUCATION GROUP REQUIREMENTS

(71-75 hours)

GROUP I: COMMUNICATION

Each student must complete ENG 112 or demonstrate by examination that he or she has a proficiency in written expression equivalent to that attained by the student who completes that course.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

(See requirements listed under Group V.)

GROUP III: MATHEMATICS AND NATURAL SCIENCES

Each student must complete 12 hours in these areas which must include one course in MATH, STAT, ACCT, MIS, or CS.

GROUP IV: SOCIAL SCIENCES

Each student must complete HIST 323, plus 32 hours chosen from courses in POLS, ECON, SOC, PSYC, HIST, and/or GEOG (except GEOG 125, 126, 127, and 313, which may be used toward Group III requirements), which must include a total of eight courses — two from each of four areas.

GROUP V: ARTS AND HUMANITIES

Each student is required to complete 16 hours chosen from literature (except creative writing), POPC, PHIL, ART, THEA, music, and/or foreign languages (beginning at 201-level).

CORE COURSES IN JOURNALISM

(18 hours)

JOUR 103, 105, 300, 402, and 412

BROADCAST JOURNALISM

(32 hours)

JOUR 306 or RTVF 464 (4) JOUR 312, 330, 331, 430,
RTVF 263 (4) and 493 (20)

RTVF 262 or 361 (4)

(Eight hours of SPCH courses may be included in the minor.)

MAGAZINE JOURNALISM

(32 hours)

JOUR 303, 304, 404, 416, VCT 208 (4)
and 492 (18) Electives (10)

NEWS-EDITORIAL

(28 hours)

JOUR 302, 311, 312, 315, Electives (10)
and 491 (18)

PHOTOJOURNALISM

(26 hours)

JOUR 306, 307, 407, and JOUR 302 or 303 (4)
494 (14) Electives (8)

PUBLIC RELATIONS

(44 hours)

JOUR 303, 340, 380, 440, VCT 203 or 208 (4)
and 495 (18) MGMT 305 or 360 (4)
MKT 300 and 410 (8) Electives (10)

(Non-journalism courses may be included in interdepartmental minors.)

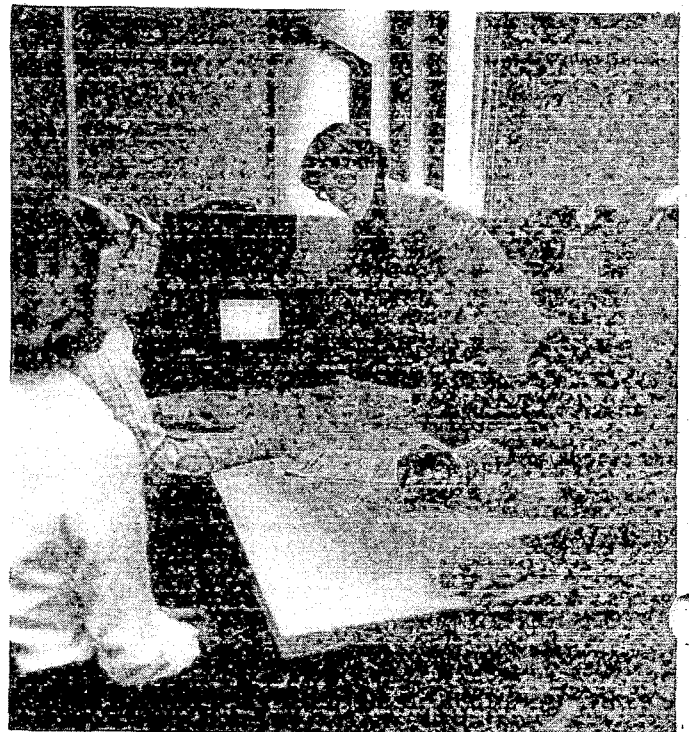
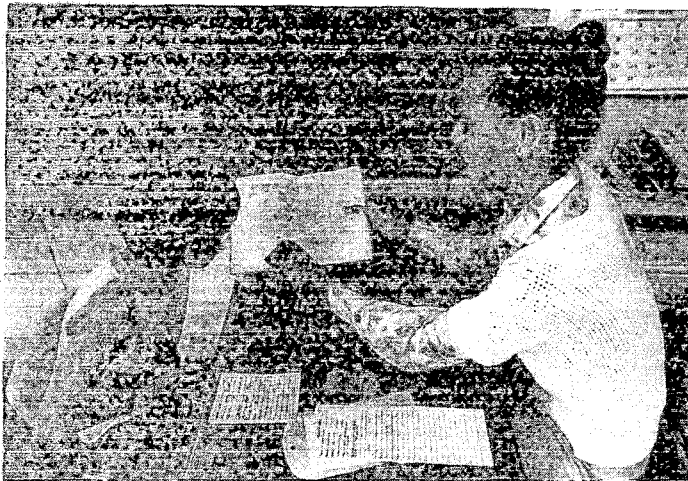
A substantial number of electives can be taken along with the above required courses. In some cases the student may complete the equivalent of a second major.

Any change in program requirements or course prerequisites must have approval of the director of the School of Journalism.

Other programs

Programs in journalism also are available through the College of Education.





COLLEGE OF EDUCATION

OFFICE OF THE DEAN

David G. Elsass, Ed.D., *Dean*, 444 Education Building, 372-0151

G. R. Horton, Ph.D., *Associate Dean*, 444 Education Building, 372-0151

OFFICE OF ADVANCED PROGRAMS

Ronald L. Partin, Ph.D., *Coordinator*, 332 Education Building, 372-0151

OFFICE OF TEACHER EDUCATION PROGRAMS

Patricia L. Mills, Ph.D., *Assistant Dean*, 455 Education Building, 372-0151

Larry D. Wills, Ph.D., *Coordinator of Secondary and International Teacher Education*, 442 Education Building, 372-0151

OFFICE OF RESOURCES AND FIELD EXPERIENCES

Donald J. Chase, Ph.D., *Director*, 444 Education Building, 372-0151

OFFICE OF PROGRAM ADVISEMENT AND TEACHER CERTIFICATION

Jane Wood, M.S., *Director*, 365 Education Building, 372-0151

Sally Craycraft, M.Ed., *Assistant Director*, 365 Education Building, 372-0151

OFFICE OF EDUCATIONAL RESEARCH AND SERVICES

Fred L. Pigge, Ph.D., *Director*, 330 Education Building, 372-0151

Robert Yonker, Ph.D., *Coordinator of Research Development*, 330 Education Building, 372-0151

DEPARTMENTS AND SCHOOLS

Department of College Student Personnel, Gerald L.

Saddlemire, Ed.D., *Chair*, 318 Education Building, 372-0151

Department of Educational Administration and Supervision,

Ronald D. Jones, Ph.D., *Chair*, 509 Education Building, 372-0151

Department of Educational Curriculum and Instruction, Verlin

W. Lee, Ph.D., *Chair*, 529 Education Building, 372-0151

Department of Educational Foundations and Inquiry, Robert L.

Reed, Ph.D., *Chair*, 529 Education Building, 372-0151

Department of Home Economics, Ronald L. Russell, Ph.D.,

Chair, 210 Johnston Hall, 372-2026

Department of Library and Educational Media, Keith E.

Doellinger, Ph.D., *Chair*, 216 Hayes Hall, 372-2461

Department of Special Education, H. John van Duyne, Ed.D.,

Chair, 451 Education Building, 372-0151

School of Health, Physical Education, and Recreation, Betty

van der Smissen, Re.D., *Director*, 220 Memorial Hall, 372-2876

School of Technology, Jerry Streichler, Ph.D., *Director*, 208 Technology Building, 372-2436

AIMS AND PURPOSES

The College of Education has two primary purposes. One of these purposes is to provide course work that contributes to the general education program of the University. The other primary purpose is to provide programs that lead to careers in the fields of education, technology, recreation, child and family development, and educational services personnel.

The college believes that quality career programs must include the following three elements:

1. A program of general education designed to provide a broad and liberating educational experience for life-long learning.

2. Advanced study in one or more areas of specialized interest.

3. A program of both on-campus and field-based professional experiences.

To effect the realization of establishing quality career programs, the College of Education maintains close working relationships with other colleges in the University for use of their established courses, with elementary and secondary

schools in northern Ohio for field-based experiences, with vocational schools and technical and branch colleges for facilitation of co-operative activities and transfer credit, and with the State Department of Education for teacher certification.

Two degrees, the Bachelor of Science in Education and the Bachelor of Science in Technology, are offered by the College of Education.

COLLEGE MATRICULATION

Students accepted by Bowling Green State University may be registered in the College of Education when they have:

1. formally declared their intent to major within the College;

2. registered with the College Office of Program Advisement as a provisional member of a program or as undecided as to a major; and

3. conferred with an adviser assigned by the College of Education. Students transferring from another BGSU college also must have completed at least 12 quarter hours of BGSU courses and achieved a grade point average of 2.0 or higher.

PROGRAM MATRICULATION

Full membership in a College of Education program will become effective when a student has:

1. completed either SPCH 102 or ENG 112 with a grade of "C" or better;

2. completed at least two other general education courses required by the program;

3. attained an accumulative grade point average at BGSU of 2.0 or higher;

4. met the additional specific requirements and application procedures that have been established by the particular program; and

5. completed EDCO 202 (or a college-accepted program alternative) with a grade of "C" or better. Since this course and subsequent professional courses involve experience in the schools, a tuberculin test is required. Prospective teachers must also take speech and hearing tests so that they may avail themselves of appropriate corrective services if necessary. This fifth criterion applies only to students in teacher certification programs.

DUE PROCESS FOR ACADEMIC DECISIONS

The College of Education has established specific requirements relating to admission, program matriculation, student teaching eligibility, graduation and certification standards which are all available from the Program Advisement and Teacher Certification Office and the dean's office. Any questions regarding these requirements, standards, or appeals related to other decisions may be directed to the dean's office or to the Program Advisement and Teacher Certification Office.

All academic appeals may be initiated at either the dean's office or Program Advisement Office. Appeal forms are available in either office; only written appeals are considered. A rationale for the appeal is required and documentation or other evidence may be attached. The written materials constituting the appeal are then reviewed by an appeals board, which serves in an advisory capacity to the dean. Examples of academic appeals include: appeals for reinstatement after being dropped for academic reasons, appeals regarding the denial of admission to either the college or a program, and ineligibility of denial for any field experience, including student teaching. The dean of the college reserves the right of final decision and may refer cases to an appeals board or an advisory committee for recommendations.

Appeals regarding the issuance of a grade are not initiated at the college level. Rather, these appeals are processed with the instructor; each department follows its own procedures which are consistent with the recommendations of the Faculty Senate.

In cases related to academic honesty or other disciplinary action, a student is referred to the Student Code.

ADVISING

The College of Education maintains a staff of program counselors and faculty advisers on a regular basis in the Office of Program Advisement and Teacher Certification, located in 365 Education Building. This staff alerts students to specific requirements, curriculum developments, certification procedures, career options, and academic appeals procedures.

As soon as possible, the student is assigned to an adviser within the major area of study. The Program Advisement and Teacher Certification Office supplements the advising performed at the departmental level. The responsibility of contacting an adviser rests with the student. Program revision, certification changes, and shifts in the demands of the marketplace support a close adviser/student relationship.

Students must file a checksheet by the end of the junior year. Once a checksheet is submitted, a deficiency list indicating all unfulfilled graduation requirements is mailed to the student.

CERTIFICATION

Upon successful completion of a Bowling Green teacher education program, the student receives institutional endorsement for one or more of the following Ohio teaching certificates:

ELEMENTARY

A graduate completing the elementary education major is eligible for an elementary teaching certificate, valid for teaching grades one to eight. An elementary education major who completes EDFI 342 and EDCI 357 and who student teaches in either kindergarten, first, second, or third grade is eligible for a kindergarten elementary certificate, valid for teaching grades kindergarten to eight.

HIGH SCHOOL

A graduate completing a secondary certificate major and/or minor is eligible for a high school teaching certificate, valid for teaching the major and/or minor subject area in grades seven through twelve. A candidate interested in junior and senior high school teaching is strongly recommended to select a teaching minor in addition to a teaching major.

SPECIAL

A graduate completing one of the following major programs — art, educational media, foreign language, health, industrial arts, music, or physical education — is eligible for a special teaching certificate, valid for teaching the subject from kindergarten through the twelfth grade.

SPECIAL EXCEPTIONAL CHILDREN

A graduate completing one of the following majors — deaf and hard of hearing, educable mentally retarded, learning disabilities and behavior disorders; moderately, severely, or profoundly handicapped; or speech and hearing therapy — is eligible for a special exceptional children teaching certificate valid for teaching the major areas in all grades, kindergarten through twelve.

VOCATIONAL

A graduate completing either a distributive education or home economics major or a graduate completing the OWE/OWA certification pattern is eligible for a vocational teaching certificate.

DUAL

Graduates can qualify for more than one teaching certificate by completing a double major or minor. Dual certification in elementary education and high school education can be obtained by the completion of the elementary major and a certifiable secondary major or minor, including the corresponding secondary methods course. Other types of dual certification are possible; additional information is available in the Program Advisement and Teacher Certification Office, 365 Education Building.

Application for Certification

Each teacher education candidate must complete an application for certification; these applications are available from the student teaching supervisors in the Program Advisement and Teacher Certification Office, 365 Education Building. Completed applications should be returned by the Program Advisement and Teacher Certification Office by the end of the second week of the graduation quarter. Ohio teaching certificates are not transferable to other states, but Ohio participates in the Interstate Agreement of Qualification of Education Personnel and has entered into an implementation contract with 28 states.

Teachers who already hold certificates but who wish to qualify for another type of certificate may do so by following specified retraining programs; outlines of these programs can be obtained in the Program Advisement and Teacher Certification Office, 365 Education Building.

INTERCOLLEGE CURRICULA

A candidate for a degree from the College of Education who desires to take a second degree from the College of Health and Community Services, College of Arts and Sciences, or College of Business Administration may take work in that college after graduation to complete degree requirements or qualify for the dual degree program. Students may register for the dual degree as soon as they are eligible.

A student desiring a dual degree must:

1. secure permission of the deans of both colleges before the end of the junior year.
2. maintain an accumulative grade point average of 3.0 or better based upon at least two quarters of work at Bowling Green.
3. complete the requirements of both colleges for the degree sought.
4. complete at least 30 hours of credit beyond the hours required for a single degree.

BACHELOR OF SCIENCE IN EDUCATION

A candidate for the degree of Bachelor of Science in Education must complete the following requirements for graduation in addition to those listed on page 7.

1. Meet all requirements for a major including prerequisites, laboratory experiences, personal fitness, and other regulations;
2. Complete 63 quarter hours of credit from the areas identified under General Education Requirements.
3. A candidate for graduation must file credentials of personal data with the Placement Service not later than the second week of the final quarter.

GENERAL EDUCATION GROUP REQUIREMENTS

The College of Education requires all candidates for baccalaureate degrees to demonstrate, through the satisfactory completion of 63 quarter hours of general education credit, that they have met these academic and personal objectives: (A) developed skills in listening, speaking, reading, writing, mathematics, critical thinking, and conflict resolution; (B) achieved an understanding of literature, the fine arts, and other humanities; of the natural sciences and technology, of the social and behavioral sciences, and of cultures other than one's own; and (C) experienced personal development through integration of physical development with the understanding of self and relationships to others. It is expected that the final outcome of the student's general education will be the ability to integrate the skills developed with the understandings achieved and that this integration will be incorporated in the student's personal development.

GROUP I: COMMUNICATION

Each student must complete ENG 112 or equivalent and SPCH 102. Students have demonstrated acceptable performance in English skills if they have received a satisfactory grade in ENG 112. Minimum total: 8 hours.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

See Group V.

GROUP III: MATHEMATICS AND SCIENCE

Each student must complete 14 hours of credit selected from the areas of ASTR, BIOL, CHEM, CS, GEOL, MATH, PHYS, or GEOG 125, 126, 127, 212, 213, 404, 405, 427, 433, 460, 464. This course work must be in a science and mathematics or in at least two sciences. Minimum total: 14 hours.

GROUP IV: SOCIAL SCIENCES

Each student must complete 14 hours of credit selected from the areas of ECON, GEOG, HIST, LEGS, POLS, PSYC, and SOC. The course work must be in at least two social sciences and must include PSYC 201. Minimum total: 14 hours.

GROUP V: LITERATURE, FINE AND APPLIED ARTS

Each student must complete a literature course and nine hours of credit in one or more of the following areas: ART, BUSE, crafts, THEA and RTVF, foreign language, HOEC, VCT, L&EM, modern dance, music, and PHIL. The literature requirement can be fulfilled by taking any literature course offered by the English department (except ENG 342) or a literature course in translation offered by a foreign language department. Minimum total: 13 hours.

TOTAL GENERAL EDUCATION REQUIREMENTS

All students pursuing Bachelor of Science in Education degrees must complete 63 quarter hours of credit; however, some of the programs of study exceed these minimum requirements.

PROFESSIONAL REQUIREMENTS

In addition to general education requirements, all students pursuing programs leading to teaching certification must complete a sequence of courses in professional education. This course work is integrated with directed observation and participation in school settings (field experiences) and is accompanied by on-campus clinical experiences. Professional education course work required in each of the teacher education program areas is shown below along with credit hour and clinical/field hour totals.

Business Education: EDCO 202 and 331; EDSE 311; EDCI 360; EDFI 302, 402, and 408; EDAS 409; and BUSE 314, 352, 354, 356 (comprehensive with shorthand only), 358, 462, and 466 (57-59/603-623).

Educable Mentally Retarded: EDCO 202 and 381; L&EM 301; EDCI 355 and 359; EDFI 302, 402 or 429, and 408; EDAS 409; ART 482; PEP 433; and EDSE 431, 433, 437, 442, 443, 447, 448, 451, and 453 (86-89/752).

Elementary Education: EDCO 202 and 381; L&EM 301; EDSE 311; EDFI 302, 402, and 408; EDAS 409; MUED 353; PEP 342; ART 343 or IE 316; and EDCI 351, 352, 353, 355, 356, 359 or 420, and 423 (71-73/707).

Foreign Languages: EDCO 202 and 331; L&EM 301; EDSE 311; EDFI 302, 402, and 408; EDAS 409; and EDCI 373 and 490 (45/497).

Health: EDCO 202 and 331; L&EM 301; EDSE 311; EDCI 360; EDFI 302, 402, and 408; EDAS 409; and HED 230, 348, 349, 393, 409, and 481 (60/628).

Hearing Impaired: EDCO 202 and 381; L&EM 301; EDCI 355 and 360; EDFI 302, 402 or 429, and 408; EDAS 409; ART 482; PEP 433; EDSE 431, 442, 451, 461, 462, 463, 464, and 465; and CDIS 434 and 436 (78/688).

Home Economics: EDCO 202 and 331; L&EM 301; EDSE 311; EDCI 360; EDFI 302, 402, and 408; EDAS 409; and HOEC 250, 352, 353, and 354 (58/647).

Industrial Arts: EDCO 202 and 331; L&EM 301 or VCT 203; EDFI 302, 402, and 408; EDAS 409; and IE 252, 288, 316, 352, 447, 448, and 449 (58-60/582-592).

Learning and/or Behavior Disorders: EDCO 202 and 381; L&EM 301; EDCI 355; EDFI 302, 402 or 429, and 408; EDAS 409; ART 482; PEP 433; and EDSE 431, 433, 437, 442, 443, 453, 455, and 458 (84-87/761).

Media Specialist/Librarian: EDCO 202 and 331; EDSE 311; EDCI 360; EDFI 302, 402, and 408; EDAS 409; and L&EM 311, 407, 411, 428, 430, and 450 (63/560).

Moderate, Severe, and Profoundly Handicapped: EDCO 202 and 381; L&EM 301; EDCI 355, 359; EDFI 302, 342, 402 or 429, and 408; EDAS 409; ART 482; PEP 433; and EDSE 431, 433, 437, 440, 442, 443, 451, and 470 (78-81/722).

Music Education: EDCO 331; EDSE 311; EDCI 360; EDFI 302, 402, and 408; EDAS 409; MUED 240 or both EDCO 202 and L&EM 301; and MUED 255, 355, 455, 456, and 457 (59-60/450-477).

Physical Education, Plan I: EDCO 202 or PEP 333; EDCO 331; L&EM 301 or VCT 203; EDSE 311 or PEP 433; EDFI 302; EDFI 402 or PEP 402; EDFI 408; EDAS 409; PEP 237, 238, 241, 332, 387, 428, and 438; and HED 409 (69-73/731-777).

Physical Education, Plan II: EDCO 202 or PEP 247; EDCO 331; L&EM 301; EDSE 311 or PEP 433; EDFI 302; EDFI 402 or PEP 402; EDFI 408; EDAS 409; PEP 241, 254, 256, 356, 412, and 468; and HED 409 (63-65/522-575).

Physical Education, Plan III: EDCO 202 and 331; L&EM 301; EDSE 311 or PEP 433; EDCI 360; EDFI 302; EDFI 402 or PEP 402; EDFI 408; EDAS 409; PEP 241, 254, 352, 392, and 412; and HED 409 (64-65/705-724).

Secondary: EDCO 202 and 331; L&EM 301; EDSE 311; EDFI 302, 402, and 408; EDAS 409; and EDCI 360, 370, and one of the following: EDCI 371, 372, 374, 375, 376, 377, or 378 (49/552).

Speech and Hearing Therapy: EDCO 202 and 331; L&EM 301; EDSE 311 or 431; EDCI 355; EDFI 302, 402, and 408; EDAS 409; EDSE 451; and CDIS 391, 424, 426, 427, 434, and 435 (67/602).

Visual Arts: EDCO 202 and 331; L&EM 301 or VCT 203; EDSE 311; EDFI 302, 402, and 408; EDAS 409; and ART 252, 352, 353, and one of the following: 481, 482, 483, 488, or 495 (55-57/560-610).

STUDENT TEACHING

Student teaching is the culminating field experience in the student's program of teacher education. It may be taken as early as the last quarter of the junior year. During student teaching, the student devotes full-time to participation and teaching under the guidance of a cooperating teacher and campus field supervisor. The student is assigned to one situation and progresses from observation and directed participation to responsibility for full-time teaching. The student is guided in studies of child development, specific teaching skills, and the planning of a balanced program of a learning situation. He or she is expected to participate in the curricular, extracurricular, and professional activities of the school.

A student in physical education, music, or art ordinarily teaches in both elementary and secondary schools. Programs for the student in public school music are individually planned to give proper balance or concentration on vocal or instrumental experience.

The college attempts to place student teachers in the best available stations. While student preferences are taken into consideration, they cannot be met in all cases. Stations must have both college and program approval.

STUDENT TEACHING ELIGIBILITY REQUIREMENTS

To be eligible for assignment in student teaching, the student must:

1. Have completed 125 hours of college credit, including the following courses:
 - a) ENG 112;
 - b) SPCH 102;
 - c) PSYC 201;
 - d) EDFI 302;
 - e) Methods course(s) required for the program.

2. Have completed all specific requirements for student teaching eligibility. These are listed on the official program check sheet, available from the Program Advisement Office.
3. File an application for student teaching in the Field Experiences Office, 444 Education Building, not later than the first two weeks of the quarter preceding anticipated student teaching.
4. Have earned an accumulative grade point average of 2.20 with no incompletes at the end of the quarter prior to student teaching.
5. Be fully accepted in a College of Education Teacher Certification Program either as an undergraduate student or baccalaureate degree holder (the school nurse program is an exception).
6. Have a satisfactory performance record in course related field and clinical experiences.

Student teaching may be deferred or denied by the dean upon the recommendation of the Field-Experience Advisory Committee of the College of Education.

INTERNATIONAL TEACHER EDUCATION PROGRAMS

The College of Education offers interested education majors an opportunity to complete the educational component of student teaching in an international setting.

Selected individuals will be placed in American bi-national schools in Bogota, Colombia; Campinas, Brazil; Monterrey, Mexico; or Montreal, Quebec, for an 11-week student teaching program. Most students are housed by host national families for an increased intercultural experience. Student teaching abroad enables individuals to understand another country and its educational, cultural, and political effect on the United States and the world.

Interested students should direct inquiries and applications to the Director of International Teacher Education Programs, 442 Education Building, Bowling Green State University, Bowling Green, Ohio 43403.

CONTENT AREA REQUIREMENTS

Content specializations as described within a major, minor, or other concentration are indicated in the respective curriculum outlines as specified by a program area, department, or school. These specializations are subject to college approval and, in the case of teacher certification, fields are based upon the Revised Code of Ohio Statutes and Regulations of the State of Ohio Department of Education.

The content specializations follow alphabetically within the *Bulletin*. Offerings within the School of Health, Physical Education, and Recreation; the School of Technology; and the Department of Home Economics have been grouped by unit with selective cross-referencing.

Check sheets and supplementary advising materials are available in the Program Advisement and Teacher Certification Office. Any student completing one of the following teaching majors must also complete a designated professional education sequence. Check page 73 for the specified professional education courses.

AEROSPACE EDUCATION

214 Technology Building, 372-2436

Minor (certifiable for aerospace education) (30 hours)
 TECH 191 (4) GEOG 213 and/or TECH
 ET 291 (4) 289, 389, 391 and/or AERT
 AERT 341 and 342 (4) 343, 344, 345, 401, 490
 and/or EDCO 382 (18)

AMERICAN STUDIES

214 University Hall, 372-0110

Major (Option I) (meets high school certification in English, history, geography, political science, or sociology, depending upon the student's area of concentration) (78-116 hours)

ART 441 and 442 (6)
 PHIL 315 and 415 (8)
 AMST 200 and 400 (8)
 SOC 101 and SOC 231, or
 311, or 315 or 316 or 413,
 or 418 (8); OR GEOG 225
 or 230, or 350 and GEOG
 231, 325, 326, 333, 335,
 351, 402, 425, 426, 430,
 436, or 451 (8-9)
 HIST 205 and 206 (8)
 POLS 301, 304, 331, 332,
 341, 345, 346, 347, 416,
 417, 418, 421, 422, 430,
 432, 440, and/or 442 (8)

Electives in the field of specialization are selected with the approval of the major adviser; at least one-half of the major courses must be at the 300-400 level.

Major (Option II) (meets high school certification in history and English) (121 hours)

ART 441 or 442 (3)
 ENG 303, 304, and/or 305
 (10)
 HIST 205 and 206 (8)
 PHIL 315 and 415 (8)
 AMST 200 and 400 (8)
 SOC 231, 311, 315, 316, 413,
 or 418 (4)

SOC 101 (4)
 Additional courses in ENG
 (27) and additional
 courses in HIST (37)
 POLS 301, 304, 331, 332,
 341, 345, 346, 347, 416,
 417, 418, 421, 422, 430,
 432, 440, and/or 442 (8)

Other programs

Programs in American Studies also are available through the College of Arts and Sciences.

ART

116B Fine Arts Building, 372-2786

Major (meets special certification, kindergarten-twelfth grade) (72 hours)

ART 102, 103, 104, 112, 145,
 146, 147, 205, 213, 261,
 263, 277, 321, 371, and
 373 (45)
 ART 211 or ART 212 (3)

Advanced Sequence Study
 in one area (9)
 Art history elective (3)
 Art electives (6)
 Art crafts electives

Minor (meets high school certification) (46 hours)

ART 102, 103, 104, 112, 145,
 146, 147, 205, 211, 261,
 277, 353, and 371

ART electives (6)

Minor (elementary education majors only) (46 hours)

ART 102, 103, 104, 112, 145,
 146, 147, 205, 211, 261,
 277, 352, and 371

ART electives (6)

Minor (does not lead to certification) (36 hours)

ART 102, 103, 104, 112, 145,
 146, 147, 205, 211, 261,
 277, and 371

Other programs

Programs in art also are offered by the College of Arts and Sciences and its School of Art.

ASIAN STUDIES

442 Education Building, 372-0151

Major (meets high school certification in social studies) (112) hours)

HIST 153, 280, and 291 (12)
 HIST 382, 386, 483, and/or
 486 (8)
 POLS 101, 301, 423, and 460
 (16)
 SOC 101, 231, and 331 (12)
 ENG 262 and 324 (8)
 ART 458 and 459 (6)

ECON 202, 203, and 371 (12)
 SOC 419 (4)
 PHIL 321 and 322 (8)
 Electives in social sciences
 approved by adviser (6)
 HIST 205 or 206 (4)
 GEOG 121, 230, 344, and
 345 (16)

Other programs

Programs in Asian studies also are available through the College of Arts and Sciences.

ASTRONOMY

529 Education Building, 372-0151

Endorsement (leads to a strong background in astronomy, but does not lead to teacher certification) (13-16 hours)

ASTR 201 (4) ASTR 210, 305, 307, 309,
403, and/or 407 (9-12)

Other programs

Programs in astronomy also are available through the College of Arts and Sciences.

ATHLETIC COACHING

See School of Health, Physical Education, and Recreation, page 86.

ATHLETIC TRAINING

See School of Health, Physical Education, and Recreation, page 86.

BIOLOGICAL SCIENCES

529 Education Building, 372-0151

Major (meets high school certification) (49-50 hours)

BIOL 201, 202, 203, 301, 350, Electives in BIOL (20) — at
and 352 (25) least one from each of
CHEM 213 (4) or CHEM 308 these groups must be
and 309 (6) included: BIOL 321, 354,
412, 420, 422, or 425; BIOL
407, 408, 411, 413, 417,
418, 436, 438, 439, 443, or
446.

Minor (meets high school certification) (34 hours)

BIOL 201, 202, 203, 301, 350, CHEM 111 (4)
and 352 (25) Electives in BIOL (5)

Other programs

Programs in biological sciences also are offered through the College of Arts and Sciences.

BUSINESS EDUCATION

242 Business Administration Building, 372-2901

Major — comprehensive with shorthand (meets high school certification in comprehensive business education and shorthand) (69 hours)

First year

BUSE 101 (4)

Second year

ACCT 221 and 222 (8) BUSE 210*, 211, 220, 230,
ECON 200 or 202 (4) and 240 (16)

Third year

BUSE 311*, 312, and 321 (9) BA 303 (4)
MKT 300 (4) LEGS 301 (4)

Fourth year

BUSE 335 or 455 (3) BUSE 401 and 466 (9)
MKT 340, 410, or 430 (4)

Major — comprehensive without shorthand (meets high school certification in comprehensive business education) (62 hours)

First year

BUSE 101 (4)

Second year

ACCT 221 and 222 (8) BUSE 210*, 211, 220, 230,
ECON 200 or 202 (4) and 240 (16)

Third year

BUSE 321 (3) BA 303 (4)
LEGS 301 and 302 (8) MKT 300 (4)

Fourth year

BUSE 335 or 455 (3) MKT 340, 410, or 430 (4)
BUSE 466 (4)

Minor — bookkeeping and basic business (meets high school certification in bookkeeping and basic business) (36 hours)

ACCT 221 and 222 (8) BUSE 240, 321, 352, and 354
Electives in ACCT, LEGS, or (13)
economic geography (7) ECON 200 or 202 (4) and
ECON 203 (4)

Minor — sales communication (meets high school certification in sales communication) (34 hours)

Second year

BUSE 240 (4)

Third year

BA 303 (4) BUSE 321 and 364 (7)

MKT 300 and 340 (8)

Fourth year

Approved elective in MKT 430 and 436 (8)
accounting, advertising,
economic geography,
office procedures, office
machines, merchandising,
or typing (3)

Minor — stenography and typing (meets high school certification in stenography and typing) (34 hours)

Second year

BUSE 210*, 211, 215*, and
220 (12)

Third year

BUSE 311, 312, 356, and 358 BA 303 (4)
(10)

Fourth year

BUSE 335 or 455 (3) BUSE 401 (5)

Vocational work experience (see work experience)

CHEMISTRY

529 Education Building, 372-0151

Major (meets high school certification) (41 hours)

First year

CHEM 121, 122, and 123 (15)
or CHEM 131, 132, and
133 (15)

Second year

CHEM 201 (for those having
taken CHEM 123) (5)

Third and fourth years

CHEM 343, 344, and 345 (14) CHEM 308, 309 (or CHEM
CHEM 352 (5) or CHEM 431 445), 310, 321, 413, 433,
and 432 (5) 434, 435, 440, 460, and/or
461 (2-7)

Minor (meets high school certification) (30 hours)

First year

CHEM 121, 122, and 123 (15)
or CHEM 131, 132 and 133
(15)

Second, third, and fourth years

CHEM 201 (for those having CHEM elective at 300- or
taken CHEM 123) (5) 400-level (for those not
CHEM 306 or 343 (4-5) taking CHEM 201) (5)
CHEM 308 and 309 (6) or
CHEM 352 (5)

Other programs

Programs in chemistry also are offered through the College of Arts and Sciences.

CHILD AND FAMILY DEVELOPMENT

See Department of Home Economics, page 84.

*A student with insufficient training in shorthand or typewriting must take a beginning or intermediate course.

COMMUNICATIONS

365 Education Building, 372-0151

Major (meets high school certification in communications comprehensive) (102-103 hours)

First and second years

ENG 380 (5) IPCO 306 (4)
ENG 202, 204, 205, or 206 (4) POPC 260, AMST 200, or
VCT 203 or 208 (4) ENG 208 (4)

In addition, each student must complete either Option I or Option II:

Option I (speech concentration)

SPCH 351 (4) ENG 301, 304, 305, and 311
IPCO 203 and 205 (8) (19)
RTVF 260 or 466 (4) JOUR 103, 105, and 300 (12)
RTVF 262, 263, or 264 (4) IPCO 204, 303, 304, and/or
ENG 320, 323, or 325 (4) 305 (8)
THEA 202 and 241 (7) THEA 145, 341, 344, or 348
CDIS 223 (4) (3-4)
ENG 481, 482, or 483 (4)

Option II (English concentration)

THEA 202 and 241 (7) IPCO 203 and 205 (8)
RTVF 260 and 364 (8) CDIS 223 (4)
ENG 301, 304, 305, and 311 JOUR 103, 105, and 300 (12)
(19) ENG 320, 323, 325, 330,
ENG 481, 482, or 483 (4) and/or 333 (8)
ENG 309, 310, 322, 415, or ENG 290, 342, 343, 372,
416 (4-5) and/or 488 (8-10)
EDCI 359 (5)

Other programs

Programs in communication also are available through the College of Arts and Sciences.

COMPUTER SCIENCE

365 Education Building, 372-0151

Major (meets high school certification) (64-65 hours)

CS 101 or 103 (4-5) CS 104, 200, 201, 202, 210,
CS 350, 451, or 452 (4) 305, 306, and 307 (31)
MATH 131, 231, and 232 (15) Two additional CS courses
at 400-level

Minor (meets high school certification) (36-37 hours)

CS 101 or 103 (4-5) CS 104 and 210 (9)
Four additional CS courses EDCI 377 and 370 (7)
(16)

Other programs

Programs in computer science also are offered through the College of Arts and Sciences.

DANCE

See School of Health, Physical Education, and Recreation, page 86.

DIETETICS

See Department of Home Economics, page 84.

DISTRIBUTIVE EDUCATION

284 Business Administration Building, 372-0051

Major (meets vocational certification in distributive education) (38-41 hours)

BUSE 101, 240, and 491 MKT 300, 340, 410, 430, and
(10-13) 436 (20)
ECON 200 (4) BUSE 463 or 465 (4)

Minor (meets vocational certification in distributive education) (28 hours)

BUSE 364, 461, and 462 (12) BUSE 463 or 465 (4)
MKT 300 and 340 (8) MKT 410, 430, or 436 (4)

Vocational work experience

See work experience

DRIVER EDUCATION

See School of Health, Physical Education, and Recreation, page 86.

EARLY CHILDHOOD EDUCATION

See Department of Home Economics, page 83.

EARTH SCIENCE

529 Education Building, 372-0151

Major (meets high school certification in earth science) (47 hours)

First year

GEOL 103, 104, and 105 (12)

Second and third years

GEOG 125 and 213 (8) GEOL 210, 304, 305, and
306 (17)

Fourth year

GEOL 493 (9)

Minor (meets high school certification in earth science) (33-34 hours)

GEOL 103, 104, 105, 210, and GEOL 125 and 213 (8)
304 (21) GEOL 305 or 306 (4)

ECONOMICS

442 Education Building, 372-0151

Major (meets high school certification in economics) (44 hours)

Second year

ECON 400 (except for ECON 200 or 202 (4)
students who have ECON 203 (4)
completed MATH 124 or
131) (4)

Third and fourth years

Electives in ECON (20-24) ECON 302, 303, and 473 (12)
(Students who plan to do
graduate work in ECON
should take ECON 401)

Minor (meets high school certification) (32 hour)

Second year

ECON 400 (except for those ECON 200 or 202 (4)
who have completed ECON 203 (4)
MATH 124 or 131) (4)

Third and fourth years

ECON 303 (4) Electives in ECON (16-20)

Other programs

Programs in economics also are offered through the College of Arts and Sciences and the College of Business Administration.

EDUCABLE MENTALLY RETARDED

451 Education Building, 372-0151

Major (meets special exceptional children kindergarten-twelfth grade certification; see special curriculum below)

First year (46 hours)

ART 101 (3) BIOL 104 (5)
ENG 112 (4) GEOG 121 and 122 (6)
PEG 100 (3) HED 109 and 110 (5)
HIST 151, 152, or 153 (4) SPCH 102 (4)
PSYC 201 (5) Physical science elective
EDCO 202 (3)

Second year (46 hours)

HIST 205 and 206 (8) MATH 241 and 242 (9)
EDFI 302 (4) EDSE 431, 451, and 433 (11)
ENG literature (4) Social science elective (4)
L&EM 301 (2) Physical science elective (4)

Third year (47 hours)

MUED 351, 352, and 353 (6) EDCI 355 and 359 (8)
PSYC 303 or 304 (3) ART 482 (4)
PEP 433 (4) EDSE 447, 448, and 456 (12)
ENG 342 (4) Electives (2)
CDIS 423 (4)

Fourth year (44 hours)

EDFI 408 (4) EDSE 437, 442, 453, and 457
EDAS 409 (4) (14)
EDCO 381 (15) Electives (3)
EDFI 402 or 429 (4)

ELEMENTARY EDUCATION

365 Education Building, 372-0151

Major curriculum (meets elementary certification, grades 1-8)

First year (45 hours)

ART 101 (3)	EDCO 202 (3)
ENG 112 (4)	Electives or minor (4)
PEG 100 (3)	HIST 151, 152, or 153 (4)
GEOG 121 and 122 (6)	GEOL, CHEM, PHYS,
HED 109 and 110 (5)	physical GEOG, or ASTR
SPCH 102 (4)	(4)
	BIOL 101 or 104 (5)

Second year (47 hours)

MATH 241 and 242 (9)	ENG literature elective (4)
Electives or minor (9)	HIST 205 and 206 (8)
ASTR, GEOL, CHEM, PHYS,	PSYC 201 (5)
physical GEOG (4) — must	ECON, SOC, POLS, LEGS,
be different science than	PSYC, GEOG, HIST (not
one taken first year	already required) (8)

Third year (47 hours)

ART 343 or IE 316 (3-4)	ENG 342 (5)
EDCI 351, 352, 353, 355, and	MUED 351, 352, and 353 (6)
356 (16)	EDSE 311 (3)
PEP 342 (4)	L&EM 301 (2)
CDIS 423 (4)	EDFI 302 (4)

Fourth year (44 hours)

EDCO 381 (15)	EDFI 402 and 408 (8)
EDAS 409 (4)	EDCI 359 or 420 (4-5)
Electives or minor (7)	EDCI 423 (4)

Completion of EDFI 342, EDCI 357, and student teaching in a kindergarten through third grade setting will meet certification for grades, kindergarten through eighth.

ENGLISH

206G University Hall, 372-2576

Major (meets high school certification in English) (57 hours)

Group I

ENG 202 or 205 (4)
ENG 301, 343, 380, and 381 (17)
ENG 201, 207, or 251 (4)
ENG 481, 482, or 483 (4)

Group II

ENG 309, 310, 402, 403, 404, or 411 (4-5)
ENG 303, 304, 305, 311, 417, or 418 (4-5)

Group III

ENG 203, 325, 335, 401, 406, or 410 (4)
ENG 204, 206, 322, 323, 324, 333, 415, 416, or 435 (4)

Group IV

ENG 203, 204, 206, 261, 262, 263, 303, 304, 305, 306, 309, 310, 311, 320, 322, 323, 324, 325, 330, 333, 335, 372, 400, 401, 402, 403, 404, 406, 408, 410, 411, 415, 416, 417, 418, 419, 420, 423, 430, 435, 452, 453, 454, 455, and/or 456 (12-13)

At least two of the seven courses from Groups II, III, and IV must be at the 400 level.

Minor (meets high school certification in English) (51 hours)

Group I

ENG 202 or 205 (4)
ENG 301 and 380 (9)
ENG 201, 207, or 251 (4)
ENG 381, 481, 482, or 483 (4)
EDCI 370, 371, 360 (10)

Groups II and III same as for majors (16-18)

Group IV same list as for majors, but choose one course (4-5)

At least one of the five courses from Groups II, III, and IV must be at the 400 level.

Other programs

Programs in English also are offered through the College of Arts and Sciences.

ENVIRONMENTAL SCIENCE

529 Education Building, 372-0151

Major (meets high school certification in biological sciences, general science, and health) (91-103 hours)

BIOL 101, 201, 202, 203, 301,	Select two: HED 338, 346;
321, 322, 332, and 490 (40)	PEP 443; HOEC 105, 120,
PHYS 100 (4)	207, 302, 407; BIOL 313,
HED 110, 209, 313, 340, 409,	406, 421; and/or PSYC 305
and 480 (22)	(6-10)
MATH 122, 124, or 130 (or	SOC 101 (4)
high school equivalent) (5)	CHEM 111 and 112 (8) or
GEOL 421 (4)	CHEM 121, 122, and 123
Elective in CS or STAT (4)	(15)
CHEM 213 or 306 (4-5)	

Recommended

EDCI 375 and 427 (8) EDFI 415 and 416 (8)

FAMILY LIFE EDUCATION

See Department of Home Economics, page 83.

FRENCH

314 or 365 Education Building, 372-0151

Major (meets special certification, kindergarten-twelfth grade) (36 hours)

FREN 350 (may be waived by	At least four 400-level
department), 351, 352, 353,	courses in FREN, one of
361, 362, 371, and 372 (24)	which must be in literature
	(12)

Minor (meets high school certification and validation of elementary certificate) (31-33 hours)

FREN 350 (may be waived by	EDCI 373, 490 (6)
department), 351, 352, 353,	FREN elective (1-4)
361, 362, 371, and 372	
(24)	

Other programs

Programs in French also are available through the College of Arts and Sciences.

GEOGRAPHY

442 Education Building, 372-0151

Major (meets high school certification in geography) (48 hours)

GEOG 125, 126, 127, 212,	GEOG 225, 230, 231, 325,
213, 404, 405, 427, 433,	326, 327, 331, 332, 333,
460, 464, and/or 471 (8)	334, 335, 402, 425, 426,
GEOG 341, 342, 343, 344,	430, 436, 442, 451,
345, 346, 347, 348, 349,	and/or 452 (8-9)
350, and/or 351 (8)	Electives in GEOG (24)

Minor (meets high school certification in geography) (32 hours)

GEOG 125, 126, 127, 212,	GEOG 225, 230, 231, 325,
213, 404, 405, 427, 433,	326, 327, 331, 332, 333,
460, 464, and/or 471 (8)	334, 335, 402, 425, 426,
GEOG 341, 342, 343, 344,	430, 436, 442, 451, and/or
345, 346, 347, 348, 349,	452 (8-9)
350, and/or 351 (8)	Electives in GEOG (8)

Other programs

Programs in geography also are offered through the College of Arts and Sciences.

GERMAN

314 or 365 Education Building, 372-0151

Major (meets special certification, kindergarten-twelfth grade) (34 hours)

GERM 317, 318, and 417 (12)	GERM electives beyond 202
	(GERM 260 and 360 may
	not be counted toward the
	major) (22)

Minor (meets high school certification and validation of elementary certificate) (31 hours)

GERM 317, 318, and 417 (12) GERM electives beyond 202
EDCI 373 and 490 (6) (GERM 260 and 360 may
not be counted toward the
minor) (13)

Other programs

Programs in German also are available through the College of Arts and Sciences.

HEALTH

See School of Health, Physical Education, and Recreation.

HEARING IMPAIRED PROGRAM

451 Education Building, 372-0151

Major curriculum (meets special kindergarten-twelfth grade exception certification)

First year (49 hours)

ART 101 (3)	GEOG 121 and 122 (6)
ENG 112 (4)	HED 109 and 110 (5)
PEG 100 (3)	SPCH 102 (4)
HIST 151, 152, or 153 (4)	GEOG or CHEM or PHYS or
CDIS 223 (4)	ASTR or physical GEOG
EDCO 202 (3)	(8)
BIOL 104 (5)	

Second year (52 hours)

HIST 205 and 206 (8)	MATH 241 and 242 (9)
PSYC 201 (5)	EDSE 431 and 451 (8)
EDFI 302 (4)	ENG literature (4)
CDIS 226 and 324 (8)	MUED 351, 352, and 353 (6)
L&EM 301 (2)	

Third year (45 hours)

ART 482 (4)	EDSE 461, 462, 463, 464, and
ENG 342 (5)	465 (15)
PEP 433 (4)	CDIS 328, 434, and 436 (10)
PSYC 324 (4)	PSYC 303 or 304 (3)

Fourth year (40 hours)

EDFI 408 and 402 (8)	EDSE 442 and 456 (7)
EDCI 355 and 360 (6)	
EDAS 409 (4)	
EDCO 381 (15)	

HISTORY

442 Education Building, 372-0151

Major (meets high school certification) (48 hours)

HIST 301, 302, 303, 306, 307, 320, 325, 326, 337, 402, 403, 405, 419, 420, 421, 422, 425, 426, 427, 428, 429, 430, 432, 433, 434, 435, 436, 437, or 438 (4)	HIST 101, 151, 152, 153, 205 206, 207, 210, and/or 280 (16)
HIST 305, 309, 310, 313, 315, 316, 340, 382, 401, 411, 412, 413, 414, 441, 442, 462, 480, 481, 483, 488, or 489 (4)	HIST 357, 363, 367, 377, 390 415, 443, 444, 445, 446, 447, 448, 449, 450, 453, 457, 458, 459, 464, 466 469, or 470 (4)
	HIST electives, including at least four courses at 400-level (20-22)

Minor (non-certifiable) (32 hours)

HIST 301, 302, 303, 306, 307, 320, 325, 326, 337, 402, 403, 405, 419, 420, 421, 422, 425, 426, 427, 428, 429, 430, 432, 433, 434, 435, 436, 437, or 438 (4)	HIST 101, 151, 152, 153, 205 206, 207, 210, and/or 280 (16)
HIST 305, 309, 310, 313, 315, 316, 340, 382, 401, 411, 412, 413, 414, 441, 442, 462, 480, 481, 483, 488, or 489 (4)	HIST 357, 363, 367, 377, 390, 415, 443, 444, 445, 446, 447, 448, 449, 450, 453, 457, 458, 459, 464, 466, 469, or 470 (4)
	HIST electives (4)

Other programs

Programs in history also are offered through the College of Arts and Sciences.

HOME ECONOMICS

See Department of Home Economics, page 83.

INDUSTRIAL EDUCATION AND TECHNOLOGY

See School of Technology, page 89.

INTERNATIONAL STUDIES

442 Education Building, 372-0151

This interdepartmental program is for the student interested in a career in international affairs; the electives in the field of specialization are selected with the approval of the major adviser.

Major (meets high school certification in social studies providing student fulfills those requirements as outlined under social studies comprehensive major) (99 hours)

HIST 153, 453, and 454 (12)	Specialization in either
GEOG 121 and 122 (6) or	international law and
GEOG 230 (5)	government or a foreign
GEOG 452 (4)	area (East and South Asia,
SOC 101, 202, and 231 (12)	Latin America, Middle
Modern foreign language	East, North America,
beyond courses numbered	Soviet Union, Sub-
202 (9)	Saharan Africa, Western
HIST 205 and 206, or	Europe, or other approved
HIST 437 and 438 (8)	area) (21-22)
POLS 201, 301, 371, and 372	ECON 202, 203, and 351 (12)
(16)	

Other programs

A program in international studies also is offered by the College of Arts and Sciences.

ITALIAN

314 or 365 Education Building, 372-0151

Minor (meets high school certification and validation of elementary certificate) (31-33 hours)

ITAL 351, 352, 361, 362, 371, and 372 (18)	ITAL electives beyond ITAL 202 (7)
EDCI 373 and 490 (6)	

Other programs

A program in Italian also is offered by the College of Arts and Sciences.

JOURNALISM

104 University Hall, 372-2076

Major (meets high school certification in journalism) (42 hours)

First and second years

JOUR 103 and 105 (8)

Third and fourth years

JOUR 300 (4)	JOUR 304, 311, 312, 330,
JOUR electives (26)	331, 380, 403, or 404 (4)

Minor (meets high school certification in journalism) (33 hours)

JOUR 103, 105, and 300 (12)	JOUR 304, 311, 312, 330,
JOUR electives (10)	331, 380, 403, or 404 (4)
EDCI 370 and 378 (7)	

Other programs

Other programs in journalism are offered through the School of Journalism of the College of Business Administration.

LANGUAGES

314 or 365 Education Building, 372-0151

Elementary education majors may have certificates validated for French, German, Italian, Russian, or Spanish if they complete a secondary minor in one of these areas. See specific languages for further information.

LATIN

314 or 365 Education Building, 372-0151

Major (meets high school certification) (32 hours)

Courses in LAT beyond 202

(32) (up to eight hours
may be chosen from LAT
480, 481, 485, and 486)

Minor (meets high school certification) (26 hours)

Courses in LAT beyond
202 (20)

EDCI 373 and 490 (6)

Other programs

Programs in Latin also are offered by the College of Arts and Sciences.

LATIN AMERICAN STUDIES

442 Education Building, 372-0151

Major (meets high school certification in social studies providing the student fulfills those requirements as outlined under social studies comprehensive major) (94 hours)

HIST 151, 152, 153, 205, 206, 309, 310, 411, and 412 (36)	GEOG 121, 122, 348, and 349 (14)
POLS 355, 456, and 477 (12)	POLS 101, 201, and/or 302 (8)
ECON 200 or 202 (4)	LAS 401 (4)
SPAN 201 and 202 (8)	SOC 101, 231, and 334 (12)
SPAN 368, 377, 378, 431, 432, 481, 485, 488, and/or 492 (12)	Social science electives (4)

Other programs

Programs in Latin American studies also are offered by the College of Arts and Sciences.

LEARNING DISABILITIES AND/OR BEHAVIORAL DISORDERS

451 Education Building, 372-0151

Major (meets special kindergarten-twelfth grade exceptional children certification IF another certifiable major is completed.)

Major curriculum

First year (46 hours)

ART 101 (3)	EDCO 202 (3)
ENG 112 (4)	BIOL 104 (5)
PEG 100 (3)	GEOG 121 and 122 (6)
HIST 151, 152, or 153 (4)	HED 109 and 110 (5)
PSYC 201 (5)	SPCH 102 (4)
	Physical science elective (4)

Second year (46 hours)

EDFI 302 (4)	EDSE 431, 433, and 451 (11)
HIST 205 and 206 (8)	MATH 241 and 242 (9)
ENG literature (4)	Social science elective (4)
L&EM 301 (2)	Physical science elective (4)

Third year (47 hours)

ENG 342 (5)	EDCI 355 and 359 (8)
MUED 351, 352, and 353 (6)	PEP 433 (4)
EDFI 402 or 429 (4)	PSYC 303 or 304 (3)
EDSE 437, 443, 453, 455 and 458 (19)	

Fourth year (44 hours)

EDFI 408 (4)	EDSE 442, 456, and 457 (10)
CDIS 423 (4)	ART 482 (4)
EDCO 381 (15)	Electives or minor (3)
EDAS 409 (4)	

LIBRARIAN

See Media Specialist, this page.

MATHEMATICS

365 Education Building, 372-0151

The requirements for the major and minor which are listed below, constitute a basic program and students are

encouraged to plan a program that includes additional courses. Advice regarding selection of courses and recommended programs of study may be obtained from the Department of Mathematics and Statistics.

Major (meets high school certification) (47 hours)

MATH 131, 231, 232, 233, 332, 339, and 421 (31)	Two additional MATH courses at 300- or 400- level, excluding MATH 395, 414, 415, 490, 495 (8)
MATH 347 or 441 (4)	
MATH 402 or 405 (4)	

Minor (meets high school certification) (35 hours)

MATH 131, 231, 232, 233, 332, and 339 (27)	One additional MATH course at 300- or 400-level, excluding MATH 395, 414, 415, 490, 495 (4)
MATH 402 or 405 (4)	

Minor (elementary education majors only — does not lead to validation or certification) (30-36 hours)

MATH 241 and 242 (9)	CS 100 or 101 (4-5)
or MATH 243 (5)	MATH 414 and 415 (8)
MATH 115 or 247 (4-5)	MATH 124 or 131 (5)
EDCI 423 (4)	

Other programs

Programs in mathematics also are offered by the College of Arts and Sciences.

MEDIA SPECIALIST/LIBRARIAN

216 Hayes Hall, 372-2461

Major (meets special certification, kindergarten-twelfth grade in educational media) (24 hours)

L&EM 203, 403, and 408 (13)	L&EM 404, 405, 431, 433, 434, 435, 438, 441, and/or 490 (6)
ENG 342 (5)	

Minor (meets high school certification in educational media) (30 hours)

L&EM 203, 403, 407, 408,
428, 430, and 450.

Minor (elementary education majors only) (35 hours)

L&EM 203, 403, 407, 408, 428, ENG 342 (5)
430, and 450 (30)

Other programs

A program in library and educational media also is offered through the College of Arts and Sciences.

MODERATELY, SEVERELY, AND PROFOUNDLY RETARDED CHILDREN

451 Education Building, 372-0151

Major (meets special exceptional children certification, kindergarten-twelfth grade)

Major Curriculum

First year (46 hours)

ART 101 (3)	Physical science elective (4)
ENG 112 (4)	BIOL 104 (5)
PEG 100 (3)	GEOG 121 and 122 (6)
HIST 151, 152, or 153 (4)	HED 109 and 110 (5)
PSYC 201 (5)	SPCH 102 (4)
EDCO 202 (3)	

Second year (49 hours)

HIST 205 and 206 (8)	Physical science elective (4)
EDFI 302 and 342 (8)	EDSE 431, 433, and 451 (11)
MATH 241 and 242 (9)	PSYC 303 or 304 (3)
L&EM 301 (2)	ENG literature (4)

Third year (47 hours)

ART 482 (4)	EDSE 440, 443, and 470 (12)
ENG 342 (5)	EDSE 437 (4)
PEP 433 (4)	MUED 351, 352, and 353 (6)
CDIS 423 (4)	EDFI 402 or 429 (4)
Social science elective (4)	

Fourth year (43 hours)

EDFI 408 (4)	EDCI 355 (3)
EDAS 409 (4)	EDSE 442, 445, 456, and 457 (13)
EDCO 381 (15)	
Electives (4)	

MUSIC

1031 Musical Arts Building, 372-2181

Major

See College of Musical Arts, page 105.

All prospective music minors must complete the Music Placement Examination before enrolling in any of the MUCH courses.

Minor — secondary instrumental (meets high school certification) (46 hours)

MUCH 132, 232, 332, and 333 (16)	MUSP major instrument (5)
MUCH 141, 142, 143, 241, 242, and 243 (6)	MUCH 130, 134, or 231 (4)
MUED 150, 151, 152, or 154 (1)	MUSP 305 and 306 (4)
	MUED 355 and 457 (7)
	MUSP large ensembles (3)

Minor — secondary vocal (meets high school certification) (45 hours)

MUCH 301, 332, and 333 (11)	MUCH 132, 231, or 232 (4)
MUCH 141, 142, 143, 241, 242, and 243 (6)	MUSP 305 and 306 (4)
MUED 150, 151, 152, or 154 (1)	MUED 355 and 456 (6)
	MUCH 130 or 134 (4)
MUSP class or studio voice (6)	MUSP large ensembles (3)

Minor (elementary education majors only) (45-48 hours)

MUCH 125, 130, 132, 232, 332, and 333 (24)	MUSP voice (2)
MUED 255 and 355 (7)	MUED 257 and 258 (2) or MUED 259 (1)
MUCH 141, 142, 143, 241, 242, and 243 (6)	MUED 150, 151, and 152 (3) or MUED 154 (1)
MUSP 305 (2)	MUSP large ensembles (2)

Other programs

Programs in music also are offered by the College of Musical Arts and the College of Arts and Sciences.

OWE/OWA WORK EXPERIENCE CERTIFICATION

See work experience, page 82.

PHILOSOPHY

365 Education Building, 372-0151

Minor (does not lead to teacher certification) (36 hours)

PHIL 100, 103, and 490 (12)	PHIL 245, 318, 325, 327, 332, 342, 402, or 425 (4)
EDFI 408 (4)	PHIL 102, 204, or 207 (4)
Two courses related to the student's major (8)	PHIL 310, 311, 312, or 313 (4)

The following three endorsements lead to a strong background in philosophy, but do not lead to teacher certification:

Endorsement — teaching courses in philosophy (20 hours)

PHIL 100, 103, and 490 (12)	PHIL 102, 204 or 207 (4)
EDFI 408 (4)	

Endorsement — value theory (20 hours)

PHIL 100 and 103 (8)	EDFI 408 (4)
PHIL 102, 204, or 207 (4)	PHIL 245, 318, 325, 327, 332, 342, 402, or 425 (4)

Endorsement — philosophy as a supplement to major (20 hours)

PHIL 100 and 103 (8)	Two PHIL electives related to the student's major (8)
EDFI 408 (4)	

Other programs

Programs in philosophy also are offered through the College of Arts and Sciences.

PHYSICAL EDUCATION

See School of Health, Physical Education, and Recreation, page 86.

PHYSICS

529 Education Building, 372-0151

Major (meets high school certification for physics) (40 hours)

CHEM 121 or 131 (5)	CHEM 122 or 132 (5)
PHYS 131, 232, and 233 (15); or PHYS 214, 215, and 216 (15)	PHYS 313 and 334 (8)
	PHYS electives at 300- and 400-level (7)

Minor (meets high school certification for physics (31-32 hours)

PHYS 131, 232, 233, and PHYS electives at 300- or 400-level (18); or PHYS 214, 215, 216, and PHYS electives at 300- or 400-level (19)	CHEM 121 or 131 (5)
	PHYS 313 and 334 (8)

Other programs

Programs in physics also are offered through the College of Arts and Sciences.

POLITICAL SCIENCE

442 Education Building, 372-0151

Major (meets high school certification) (44 hours)

POLS 201 and 302 (8)	417, 418, or 419; POLS 421, 422, 430, or 332; POLS 371, 372, 374, 436, 471, 473, 474, 475, or 477; POLS 335, 341, 432, 434, 440, 442, 443, or 444; POLS 331, 345, 346, 347, 421, or 422 (36)
Electives in POLS at 300- or 400-level including at least one course from each of the following groups:	
POLS 301, 351, 352, 354, 355, 361, 366, 368, 402, 403, 423, 453, 454, 456, 460, or 477; POLS 416,	

Minor (meets high school certification) (30 hours)

POLS 201 and 302 (8)	417, 418, or 419; POLS 332, 421, 422, or 430; POLS 371, 372, 374, 436, 471, 473, 474, 475, or 477; POLS 335, 341, 432, 434, 440, 442, 443, or 444; POLS 331, 345, 346, 347, 421, or 422 (22)
Electives in POLS at 300- or 400-level including at least one course from each of the following groups:	
POLS 301, 351, 352, 354, 355, 361, 366, 368, 402, 403, 423, 453, 454, 456, 460, or 477; POLS 416,	

Other programs

Programs in political science also are offered by the College of Arts and Sciences.

PSYCHOLOGY

365 Education Building, 372-0151

Major (meets high school certification in social psychology) (54 hours)

First year

PSYC 201 (5)

Second year

PSYC 270, 271, and 290 (12)	PHIL 101, 102, 204, or 230 (4)
-----------------------------	--------------------------------

Third year

PSYC 301, 320, 321, 322, 323, 328, 330, 331, and/or 340 (8)	PSYC 311 and 312 (6)
PSYC 303 or 304 (3)	Appropriate methods course

Fourth year

PSYC 403, 405, and 460 (13)	PSYC elective at 400-level
-----------------------------	----------------------------

Minor (meets high school certification in social psychology) (47-48 hours)

First year

PSYC 201 (5)

Second year

PSYC 270, 271, and 290 (12)	PHIL 101, 102, 204, or 230 (4)
-----------------------------	--------------------------------

Third year

PSYC 301, 320, 321, 322, 323, 328, 330, 331, or 340 (4)
Appropriate methods courses (7)

PSYC 311 (3)
PSYC 303, 304, 305, or 403 (3-4)

Fourth year

PSYC 405 and 460 (9)

Other programs

Programs in psychology also are offered by the College of Arts and Sciences.

RECREATION

See School of Health, Physical Education, and Recreation, page 87.

RESTAURANT MANAGEMENT

See Department of Home Economics, page 84.

RUSSIAN

314-365 Education Building, 372-0151

Major (meets special certification, kindergarten-twelfth grade) (31 hours)

RUSN 317, 318, 319, and 433. Electives beyond RUSN 202 (13) (18)

Minor (meets high school certification and validation of elementary certificate) (31 hours)

RUSN 317 and 318 (6) RUSN electives beyond 202 (19)
EDCI 373 and 490 (6)

Other programs

Programs in Russian also are offered by the College of Arts and Sciences.

SCIENCE COMPREHENSIVE

529 Education Building, 372-0151

Major (meets high school certification for teaching all science subjects) (90 hours)

First and second years

GEOL 103, 104, 105, and 210 (16) GEOG 125 and 213 (8)
BIOL 201 and 202 (10) CHEM 121, 122, and 123 (15); or CHEM 131, 132, and 133 (15)
PHYS 214, 215, and 216 (15); or PHYS 131, 232, 233, and 334 (20)

Third and fourth years

GEOL 304, 306, 418, and/or 421 (8-10) Electives in BIOL, CHEM or PHYS (11-18)

Minor (meets high school certification for general science) (48-53 hours)

BIOL 201 and 202 (10) PHYS 214, 215, and 216 (15); or PHYS 131, 232, 233, and 334 (20)
CHEM 121, 122, and 123 (15); or CHEM 131, 132 and 133 (15) GEOL 103 and 104 (8)

SOCIAL STUDIES

442 Education Building, 372-0151

Major (meets high school certification in social studies) (90 hours)

SOC 101, 202, and 231 (12) GEOG 121 and 122 (6)
POLS 101 or 201 (4) and HIST 151, 152, 153, 205, 206, and/or 280 (8)
POLS 302 (4)
ECON electives (8) HIST elective at 300-400 level (4)
Electives in endorsement (44)

Students must consult an assigned social studies adviser and follow the check sheet given them. The check sheet indicates the courses appropriate for first and second endorsements in history, political science, geography, economics, and sociology. Upon graduation a student is certified to teach any endorsements completed.

SOCIOLOGY

365 Education Building, 372-0151

Minor (meets high school certification) (30 hours)

SOC 101 (4) SOC 202, 316, 341, 412, 413, 418, 419, 441; and/or 442 (8-10)
HOEC 105 or 302, and/or SOC 361, HOEC 107, 320, 321, 405, 406, 407, and/or 408 (8-10) SOC 231, 301, 302, 303, 311, 315, 317, 331, 334, 352, 369, 370, 371, 413, 415, 416, and/or 432 (8-10)

Other programs

Programs in sociology also are offered by the College of Arts and Sciences.

SPANISH

314 or 365 Education Building, 372-0151

Major (meets special certification, kindergarten-twelfth grade) (36 hours)

SPAN 351, 352, 367, 368, 371, 377, and 378 (23) SPAN electives at 300- or 400-level (minimum of five courses) (13-16)

Minor (meets high school certification and validation of elementary certificate) (31 hours)

SPAN 351, 352, 367, 368, 377, and 378 (23) SPAN electives at 300- or 400-level (2-4)

EDCI 373 and 490 (6)

Other programs

Programs in Spanish also are offered by the College of Arts and Sciences.

SPECIAL EDUCATION

See communication disorders; hearing impaired children; educable mentally retarded; learning disabilities and/or behavior disorders; and moderately, severely, and profoundly retarded. Also see adapted physical education in the School of Health, Physical Education, and Recreation.

SPEECH COMMUNICATION

365 Education Building, 372-0151

Major (meets high school certification) (62-63 hours)

SPCH 102 and 351 (8) IPCO 305 (4)
IPCO 204 or 205 (4) IPCO 203 or 306 (4)
Electives in IPCO, RTVF, and THEA 243, 347, or 348 (3-4)
THEA (one course in each area suggested; courses to be chosen in consultation with adviser) (8) IPCO 303 or 307 (4)
THEA 145, 202, 241, and 341 (15)
RTVF 260 and 263 (8)
CDIS 223 (4)

Minor (meets high school certification) (53-54 hours)

SPCH 102 (4) IPCO 204 or 205 (4)
RTVF 260 and 263 (8) RTVF 262, IPCO 303, THEA 340, CDIS 266, or SPCH 351 (4)
THEA 141 or 145 (4) THEA 202, 241, and 341 (11)
IPCO 203 or 306 (4) CDIS 423 (4)
THEA 243, 347, or 348 (3-4)
EDCI 370 and 372 (7)

Other programs

Programs in speech communication also are offered through the College of Arts and Sciences and its School of Speech Communication.

SPEECH AND HEARING THERAPY

327 South Hall, 372-2223

Major Curriculum (meets special kindergarten-twelfth grade exceptional children certification in speech and hearing therapy)

First year (47 hours)

BIOL 101 or 104 (5) SPCH 102 (4)
SOC 231 (4) CDIS 223 and 226 (8)
PEG 100 (3) General Education (7)
PSYC 201 (5) EDCO 202 (3)
ENG 112 (4) PHYS 100, PHYS 350, or MATH 121 (4-5)

Second year (48 hours)

EDFI 302 (4)

General Education (4)

PSYC 270 and 305 (7)

IPCO 203 or 306 (4)

CDIS 324, 331, 333, and 422
(16)

EDCI 355 (3)

ENG 342 and 380 (10)

Third year (47-48 hours)

EDSE 431 or 311 (3-4)

EDFI 402 and 408 (8)

PSYC 303 or 304 (3)

L&EM 301 (3)

CDIS 325, 328, 330, 391, 426,
and 434 (27)

EDAS 409 (4)

Fourth year (43 hours)

THEA 340 (4)

EDCO 331 (15)

EDSE 451 (4)

CDIS 332, 433, 435, and 427
(15)

PSYC 405 (5)

WORK EXPERIENCE

365 Education Building, 372-0151

Certification pattern (meets certification in Occupational Work Experience and Occupational Work Adjustment programs). Open to majors or minors in business education, distributive education, educable mentally retarded, home economics, and industrial education. See appropriate adviser.

Required methods sequence
in major

EDFI 412

BUSE 370, 462, and 470

Partial student teaching in
the work experience area

Equivalent of one year of
gainful employment in

One course in developmental
reading by advisement

business or industry

Department of Home Economics

206 Johnston Hall, 372-2026

As an interdisciplinary field of study, home economics is concerned with the relationship of the laws, conditions, principles and ideals which deal with both man's immediate physical environment and with his nature as a social being. Degrees in home economics are offered through three colleges: education, arts and sciences, and health and community services. The department provides students with the opportunity to major or minor in one of five academic areas: foods and nutrition; home economics education; human development and family studies; resource management and consumer science; and textiles, clothing, and interior design. There are 12 undergraduate majors, which are identified below by college and degree.

Individuals completing degree requirements within home economics must meet the general education requirements specified by the college in which the program is housed. Advisers are available within the department to meet with students to discuss admission standards, degree requirements, and employment opportunities related to each of the major programs.

COLLEGE OF EDUCATION

Bachelor of Science in Education —

Teacher Certification Programs

(See introduction to College of Education for general education requirements)

EARLY CHILDHOOD EDUCATION*

206 Johnston Hall, 372-2026

Major curriculum (meets elementary certification, kindergarten-eighth grade)

This program also prepares students to work with infant, toddler, and preschool programs, public and private day care centers, as well as other agencies serving children.

First year (48 hours)

ART 101 (3)	EDCO 202 (3)
ENG 112 (4)	BIOL 101 or 104 (5)
PEG 100 (3)	GEOG 121 and 122 (6)
HIST 151, 152, or 153 (4)	HED 109 and 110 (5)
HOEC 120 and 123 (7)	SPCH 102 (4)
	Physical science (4)

Second year (45-49 hours)

HIST 205 and 206 (8)	MATH 241 and 242 (9)
PSYC 201 (5)	or MATH 243 (5)
HOEC 207 and 223 (6)	SOC 101 (4)
HED 313 (4)	EDCI 221 (3)
Physical science (4)	ENG literature (4)
L&EM 301 (2)	

Third year (30-51 hours)

EDFI 302 and 342; EDCI 351, 352, 353, 355, 356, and 357; EDCI 420 or 359; and EDCI 423 (27-28) meets certification for kindergarten through eighth grades); or PSYC 303 and 304 (6); or HOEC 320 and 321 (6)	ART 343 or IE 316 (3-4)
	PEP 342 (4)
	EDCI 321 (3)
	ENG 342 (5)
	MUED 351, 352, and 353 (6)
	HOEC 224 (3)

Fourth year (52-53 hours)

HOEC 421 and 423 (6)	SOC 316 and 361 (8)
EDSE 421 (4)	PSYC 321 or 322 or
EDCO 381 (15)	HOEC 422 (3-4)
EDAS 409 (4)	EDFI 408 and 402 (8)
CDIS 423 (4)	

*The early childhood education option is an interdepartmental program involving home economics, educational curriculum and instruction, educational foundations and inquiry, and special education.

Minor (does not lead to teacher certification) (39-40 hours)
HOEC 123, 223, 224, 320, 421, EDFI 429 (may be waived if 422, and 423 (22)
EDSE 421 (4) EDFI 402 required in major program) (4)
EDCI 221 and 321 (6)
HOEC 321 or EDFI 342 or
PSYC 303 (3-4)

FAMILY LIFE EDUCATION

206 Johnston Hall, 372-2026

Certification pattern (high school comprehensive) (90 hours)

This program is designed to be compatible with and build upon majors in home economics education, child and family development, and health education. Consult with program advisers.

HED 109, 110, 313, 338, and 409 (16)	PSYC 201 and 303 (8)
HOEC 105, 120, 205, 302, 320, and 407 (23)	BIOL 104 and 331 (10)
HOEC 103, 303, or 406 or TECH 313 (4)	RED 205 (4)
BUSE 240 or HOEC 405 (4-5)	HOEC 107 or 408 (4)
	ECON 200 (4)
	HOEC 207 or 307 (4-5)
	PSYC 311 or SOC 301 (3-4)
	SOC 101 (4)

HOME ECONOMICS EDUCATION

206 Johnston Hall, 372-2026

Major curriculum — homemaking and consumer education.

The program options in home economics education are designed to prepare those who wish to teach home economics from junior high school through adult education. The curricula are designed to meet the educational requirements necessary for one or more of the nine certification options available: vocational homemaking and consumer education, child care services job training, community and home services job training, fabric services job training, food services job training, multi-area job training, occupational work adjustment/occupational work experience, general home economics, and family life education.

First year (47 hours)

CHEM 111, 112, and 213 (12)	EDCO 202 (3)
ENG 112 (4)	SPCH 102 (4)
HOEC 100, 101, 103, and 105 (14)	PEG 100 (3)
	ART 101 (3)

Second year (45 hours)

HOEC 202, 205, 210, 212, 250, 303, and 307 (30)	ENG literature (4)
PSYC 201 (5)	EDFI 302 (4)
	L&EM 301 (2)

Third year (43-48 hours)

HOEC 206, 320, 321, 352, 311, 322, and 353 (25)	EDCI 360 (3)
ECON 200 or 201 (4)	EDSE 311 (3)
Science or MATH (2-4)	Social science (1-4)
	Elective (5)

Fourth year (48 hours)

HOEC 302, 354, 405, and 406 (17)	EDCO 331 (15)
EDFI 402 (4)	EDAS 409 (4)
Elective (4)	EDFI 408 (4)

A home economics education major with the preceding program can prepare for an additional certificate to teach job training in secondary vocational programs by completing the following additional course work.

Child care services — job training (30 hours)

HOEC 289 (2)**	PEP 342 (4)
ENG 342 (5)	HOEC 120, 324, 421, 422, and 423 (15)
ACCT 325 (4)	

**One year of acceptable on-the-job experience may be substituted. See an adviser.

Community and home services — job training (26 hours)

HOEC 289 (2)* HOEC 331 and 333 (8)
 HED 109 (3) NURS 200 (4)
 MGMT 305 (4) BIOL 313 (5)

Fabric services — job training (30 hours)

HOEC 289 (2)* ART 103 (3)
 HOEC 312, 313, 404, 412, ACCT 325 (4)
 414, and 417 (21)

Food services — job training (28 hours)

HOEC 289 (2)* MGMT 305 or ACCT 325 (4)
 HOEC 331, 333, and 431 (12) BIOL 313 (5)
 DESN 301 (5)

Multi-area — job training (2 hours)

HOEC 289 (2)*

Minor (meets high school certification) (58 hours)

HOEC 101, 103, 105, 202,
 205, 207, 210, 212, 250,
 302, 303, 320, 321, 352,
 and 405

Minor (non-certifiable) (35 hours)

HOEC 103, 105, 205, 207, 303, Electives (5)
 320, 324, and 325 (30)

Bachelor of Science in Education

Other Professional Options

CHILD AND FAMILY DEVELOPMENT

206 Johnston Hall, 372-2026

Emphasis on human development, social relationships, and the family life cycle are considered. Practical experience in the nursery school and other community facilities provides opportunities for supervised observation and experience with the various aspects of human development. During the junior or senior year, students may attend the Merrill-Palmer Institute in Detroit, a nationally recognized child development center.

Careers in these fields are: teaching in nursery schools or day care centers; working in government Headstart programs and community social services; working with youth groups, retirement homes, nursing homes, and vocations in which a knowledge of human relationships is required. This program may be combined with family life education or job training in child care services for teacher certification. A foundation is provided for graduate study; and for professional careers in which additional work is required, e.g., child and family counseling, and the administering of programs for families and children. For suggested courses, follow the outline below:

Major**First year (45 hours)**

ART 101 (3)	HOEC 105, 120, and 224 (10)
ENG 112 (4)	SOC 101 (4)
PEG 100 (3)	Science and MATH electives (9)
SPCH 102 (4)	Other electives (3)
BIOL 104 (5)	

Second year (46-47 hours)

ENG 342 (5)	HOEC 205, 207, 320, 321, and 325 (18)
TECH 313 (4)	PSYC 201 (5)
Social science elective (5)	General education IV elective (2-3)
Other electives (8)	

Third year (46 hours)

EDFI 302 and 402 (8)	HOEC 302, 322, and 435 (10)
HOEC 107 or 408 (4)	HOEC 387 (2-6)
THEA 340 (4)	HED 313 (4)
Electives (14)	

Fourth year (46 hours)

EDFI 408 (4)	HOEC 407, 421, 422, 423, and 489 (19-24)
Electives (18-23)	

Child care services (40 hours)

A child and family development major can prepare for a job training certificate in child care services by completing the following course work:

HOEC 250, 352, and 353 (11)	EDCO 331 (15)
EDSE 431 (4)	PEP 342 (4)
ACCT 325 (4)	HOEC 289 (2)

Minor (50 hours)

HOEC 105, 120, 205, 207, 302, 320, 321, 322, 387, 421, and 423 (37)	ENG 342 (5)
	THEA 340 (4)
	TECH 313 (4)

Bachelor of Science in Technology

The Department of Home Economics offers two programs which lead to the Bachelor of Science in Technology degree. For information on other programs leading to the Bachelor of Science in Technology, see School of Technology. Also see page 7 for degree requirements.

DIETETICS

206 Johnston Hall, 372-2026

A student who completes the course work below will qualify for an internship or traineeship in a program approved by the American Dietetic Association. Upon completion of this post-graduate training and passing an examination, he or she will be eligible for membership in that professional association and for national registration.

First year (45 hours)

BIOL 201 (5)	CHEM 121, 122, and 123 (15)
ENG 112 (4)	HOEC 210 (5)
MATH 124 (5)	PEG 100 (3)
SOC 101 (4)	SPCH 102 (4)

Second year (50 hours)

BIOL 313 (5)	CHEM 306, 308, and 309 (11)
ECON 200 (4)	EDFI 302 (4)
HOEC 212, 307, and 327 (13)	ENG literature (4)
PSYC 201 (5)	ACCT 325 (4)

Third year (45 hours)

BIOL 411 (5)	DESN 301 (5)
HOEC 331, 333, 405, and 432 (17)	Electives (HOEC 389 recommended) (10)
MGMT 360 and 361 (8)	

Fourth year (44 hours)

HOEC 431, 433, 434, 435, and 480 (20)	HOEC 489 (5-10) (repeatable)
MIS 475 (4)	Electives (10-15)

A dietetics program also is offered in the College of Health and Community Services.

RESTAURANT MANAGEMENT — INSTITUTIONAL FOOD SERVICE

206 Johnston Hall, 372-2026

Students who complete this program are qualified to work in food production, sales, and service in institutions or restaurants at the management level. The flexibility of this program permits students to strengthen existing competencies in food science and food production management. Industrial experience is gained through supervised field experiences in a job related to the student's goals.

First year (46 hours)

BIOL 201 (5)	SPCH 102 (4)
CHEM 111, 112, and 213 (12)	BA 102 (4)
HOEC 210 (5)	ENG 112 (4)
MATH 124 (5)	PEG 100 (3)
SOC 101 (4)	

*One year of acceptable on-the-job experience may be substituted. See an adviser.

Second year (45 hours)

ECON 200 (4)

DESN 301 (5)

Child and family elective (3)

ENG literature (4)

HOEC 212 and 326 (11)

PSYC 201 (5)

CS, OPRE, or MIS electives
(4-5)

Other electives (9-10)

Third year (46 hours)

ACCT 325 and 337 (8); or

ACCT 221 and 222 (8)

HOEC 307, 331, and 333 (13)

MGMT 360 and 361 (8)

BA 303 (4)

SPCH 306 (4)

Electives (9)

Fourth year (46 hours)

BIOL 313 (5)

HOEC 431, 433, and 480 (12)

BIOL 332 or 411 (5)

Electives (24)

Suggested electives (hours included above)

HOEC 389 and 489

HOEC 205 and 206

HOME ECONOMICS PROGRAMS IN OTHER COLLEGES

COLLEGE OF ARTS AND SCIENCES —

Bachelor of Arts degree.

Five programs in home economics are available through the College of Arts and Sciences. These are: planned professional programs in fashion merchandising and interior design; major programs in food science and nutrition, and textiles and clothing; and a general home economics major with a concentration in foods and nutrition or textiles and clothing. No minor is required for the two planned professional programs. Fashion merchandising students may choose the option to study at the Fashion Institute of Technology, New York, for a year during the junior or senior year. Programs must be planned with the adviser no later than the second year. After the second year students may participate in a supervised field experience during the summer or academic year. The following programs are available.

FASHION MERCHANDISING

206 Home Economics Building, 372-2026

This is a planned program designed to prepare students for careers in business and industry. These may include executive management positions; retail or wholesale merchandising; educational and/or sales representative for fabric, apparel, and accessory firms. No minor is required. See page 34.

FOOD SCIENCE AND NUTRITION

413 Johnston Hall, 372-2026

A major program designed for the student who wishes to specialize in the food science field preparatory to graduate study or a career in business or industry. A minor is required. See page 34.

HOME ECONOMICS GENERAL

206 Johnston Hall, 372-2026

A major program designed for the student who desires a general home economics background with a concentration in foods and nutrition, textiles and clothing, or plans to continue in graduate school. A minor is required. See page 35.

INTERIOR DESIGN

209 Home Economics Building, 372-2026

The interior design program trains students in the planning and executing of residential and contract interiors. Course work is designed to help students evaluate problems and devise solutions for them. Students who complete the approved four-year program are eligible to apply for membership in the American Society of Interior Designers (ASID). See page 34.

TEXTILES AND CLOTHING

101 Home Economics Building, 372-2026

A major program designed for the student who wishes to specialize in the textiles and clothing field preparatory to graduate study or for a career in business and industry. A minor is required. See page 35.

COLLEGE OF HEALTH AND COMMUNITY SERVICES

CHILD AND FAMILY COMMUNITY SERVICES

206 Johnston Hall, 372-2026

This is a multidisciplinary program for students who wish to concentrate in either children's services or family services. Specific courses of study are available for students who wish to pursue careers working with entire families, adolescents, infants and children or other specific groups of individuals. Career options in this program include: teaching and administration within preschools and infant centers, performing services within a variety of human service agencies including hospital based developmental programs. See page 98 for details.

DIETETICS

206 Johnston Hall, 372-2026

A professional program leading to membership and registration in the American Dietetic Association is offered through the College of Health and Community Services. See page 99.

School of Health, Physical Education, and Recreation

Betty van der Smissen, *Director*, 200 Memorial Hall, 372-2876
The School of Health, Physical Education, and Recreation is organized into five divisions: general physical education and intramurals (PEG), health education (HED), physical education-professional (PEP), recreation and dance (RED), and sports studies and management (SSM).

Individuals completing requirements in program areas within the school are prepared to begin careers as teachers of physical education, health education, driver education, and/or as athletic coaches and athletic trainers.

Concentrations in recreation or sports studies programs are designed to prepare students for management, supervisory, and leadership positions in a variety of park, recreational, and commercial programs.

In addition, the School of Health, Physical Education, and Recreation provides opportunities for active participation in a broad spectrum of instructional physical education offerings and participation in intramural and club sports.

Students seeking enrollment in any of the program offerings of the school are advised to consult a specific program area adviser for current program admission standards, retention procedure, and course enrollments.

GENERAL PHYSICAL EDUCATION AND INTRAMURALS

PEG 100 — General physical education. Each freshman must fulfill the University requirement of three units in activities that include archery, curling, dance, racquetball, skiing, swimming, ice skating, diving, and weight training. Most activities are coeducational, graded S/U, and meet two hours per week.

PEG 200 — General physical education. Elective program in diverse activities, open to any student who has completed the University requirement of three hours of PEG 100. Two hours per week.

Organized intramural and club sport competition is available through participation in:

1. coed activities — indoor, outdoor;
2. recreational sports for men;
3. recreational sports for women;
4. club sports units — 17 clubs plus performance groups in aquatics and dance.

BACHELOR OF SCIENCE IN EDUCATION

All programs in the School of Health, Physical Education, and Recreation lead to the Bachelor of Science in Education degree.

ATHLETIC COACHING

Minor (leads to Ohio Endorsement Certificate) (36 hours)

SSM 310, 328, 391, and 429 (15)	PEG 164 and 303 or PEG 303 and 360 or 443 (7-8)
PEG 110, 112, 121, 210, 212, 221, 263, 266; and/or SSM 311, 312, 321, 329 (3)	SSM 306, 307, 364, 365, 366, 367, 368, and/or 369 (two courses)
PEG 412 (4)	
BIOL 331 (5)	

ATHLETIC TRAINING

201G Memorial Hall, 372-2876

Minor (leads to NATA Certification Examination) (33 hours)
800 Hours Clinical Experience

SSM 310, 328, 391, and 410 (15)	PEG 202, 208, 209, 210, 212, 213, 214, 216, 217, 219, 220, 221; SSM 329, 330, 331, and/or 332 (6)
PEG 302 or 303 (4)	
HED 313 (4)	
PEG 360 or 443 (4)	

DANCE

Leads to a strong background in dance education, performing arts, or dance activity depending on major and interests.

Minor (does not lead to teacher certification) (36-37 hours)
PEG 121 or RED 115 (1)

RED 180, 226, 227, and 424 (9)

Select one of the following concentrations:

Dance education (27 hours)

RED 106, 111, 211, 215, 315, 387d or 487d, 325, 326, and 426;
dance electives (8); or

Dance performance (28 hours)

PEG 117, 120, or 124, 215, 315, RED 224, 325, 326, 327, and
426; dance electives (8); or

Dance appreciation (26 hours)

PEG 117, 118, 119, 120, and 124; dance electives (21)

DRIVER EDUCATION

Certification pattern (9 hours)

HED 362 and HED 462 (9)

HEALTH EDUCATION

204 Eppler North, 372-2525

Major (meets special certification, kindergarten-twelfth grade) (44-50 hours)

HED 110, 209, 313, 338, 340, (18)	HED 113, 314, 480; PEP 360, 443; HOEC 105, 302;
PSYC 201 (5)	PSYC 305; PHIL 319; BIOL
SOC 101 (4)	313; ENVH 401, 402, 403, and/or 404 (select two)
BIOL 331 and 332 (10)	
HOEC 207 (4)	

Minor (meets high school certification) (37 hours)

HED 110, 209, 313, 338, 348,
349, and 409 (23)

Nine hours from: HED 113,
230, 340, 314, 480, 481;
PEG 360, 443; HOEC 105,
207, 302; PSYC 305; PHIL
319; BIOL 313; ENVH 401,
402, 403, and/or 404 (3-4)
BIOL 332 (5)

PHYSICAL EDUCATION

Major — Plan I, elementary concentration (meets special certification, kindergarten-twelfth grade) (63-64 hours)

PEG 137, 138, 164, 237, 238, 241, 302, 303, 332, 340, 428, and 438 (43)	PEG 402 or EDFI 402 (4) PEG 433 or EDSE 311 (3-4) HED 409 and 318 (8) PEG 387f or 487f (3)
PEG 333 or EDCO 202 (2-3)	

In addition, students must complete a minimum of 14 credit hours in PEP and/or RED activity courses. These courses must be selected in consultation with an adviser from beginning, intermediate, and advanced courses. Students may receive credit for these courses through examinations in which they demonstrate the appropriate skills.

Students are encouraged to enroll in the elementary school physical education concentration as freshmen. However, to be admitted officially to the program, the student must:

1. complete the equivalent of approximately 90 credit hours and pass successfully the group requirements of the College of Education with an accumulative grade point average of 2.25;
2. complete 20 credit hours of PEP, RED, and/or HED courses with a 2.5 grade point average;
3. complete PEP 137, 138, 237, 238, and 241 with a 3.0 grade point average;
4. show ability to relate to children by completing PEP 333 with a "B" or better;
5. present written recommendations from two faculty members.

In addition, the following traits are deemed essential for those expecting to contribute positively as a teacher:

1. self-direction and motivation for selecting and attaining individual goals;
2. a set of values which reflect a character worthy of working with young children.

Students not meeting prescribed requirements may petition the elementary school physical education committee for conditional acceptance. The committee will review all credentials of applicants wishing to pursue Plan I with a concentration in elementary school physical education. Candidates will be selected and notified by the committee. The committee may grant conditional or unconditional admittance to the elementary school physical education preparation program. In case of unconditional admittance, the candidate will be interviewed and the restrictions on admittance will be explained.

Major — Plan II, secondary concentration (meets special certification, kindergarten-twelfth grade)

A candidate must apply for admission. To be admitted the student must:

1. have successfully completed PEP 137, 138, 164, 247, 254, and 256.
2. have earned a 2.25 University accumulative grade point average;
3. have earned a PEP accumulative grade point average of 2.5, including any PEP or HED course accepted by the secondary school physical education program committee;
4. have demonstrated attainment of minimal standards in 10 activity competencies and in basic movement patterns;
5. have completed 15 PEP credit hours on the BGSU main campus.

For graduation, the student must demonstrate competency in nine different activities: one advanced activity; intermediate activities in at least three categories and activities other than those used for the advanced level; and in at least five additional beginning activities. All beginning and intermediate activity competencies must be completed before student teaching. Competency assessment is conducted within each major activity course. However, if one elects to demonstrate competency without taking a class once a year by a planned schedule**, an opportunity will be provided in each activity to demonstrate competence.

First year (46 hours)

ENG 112 (4)	BIOL 104 (5)
PEP 137, 138, and 164, and 256 (10)	Group III electives (7)
Group IV electives (3)	Physical education activities (9)**
Other electives or minor (8)	

Second year (47 hours)

PEP 241, 247, and 254 (10)	L&EM 301 (2)
SPCH 102 (to be taken concurrently with PEP 247) (4)	BIOL 331 and 332 (10)
ENG literature (4)	PSYC 201 (5)
Physical education activities (4)**	EDFI 302 (4)
	HED 313 (4)
	ENG literature (4)

Third year (44 hours)

PEP 302, 303, 350, 356, 360, and 372 (25)	Group III elective (4)
EDFI 408 (4)	HED 409 (4)
SSM 310 (3)	Physical education activities (4)**

Fourth year (46 hours)

PEP 412 and 468 (7)	EDAS 409 (4)
EDCO 331 (15)	Advanced activity course (2)
PEP 402 or EDFI 402 (4)	Electives or minor (10)
PEP 433 or EDSE 311 (3-4)	

Major — Plan III, secondary concentration (meets special certification, kindergarten-twelfth grade) (86-87 hours)

PEP 105, 107, 111, 137, 138, 161, 162, 113, 163, 164, 241, 254, 302, 303, 350, 352, 360, 392, and 412; RED 111(1) (50)	PEP 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, and/or 271 (6)
PEP 110, 122, and/or 170 (2)	PEP 433 or EDSE 311 (3-4)
HED 313 and 409 (8)	HED 110 or 209; PEP 443, 461; SSM 328, 329, 330, 368, 369, 410, and/or 431 (2)
SSM 310 (3)	PEP 402 or EDFI 402 (4)
BIOL 331 and 332 (10)	

Minor — adapted physical education (does not lead to certification) (39-41 hours) Open to all College of Education students.

A candidate will be interviewed by the area coordinator.

EDSE 431, 433, and 451 (11)	PEP 302, 350, 434, 435, 470;
PEP 137 and 237 (5) or PEP 138 and 238 (5)	PSYC 324, 405, 406; GERO 470; and/or EDSE 470 (6-8)
PEP 164, 340, and 433 (11)	
PEP 387a and 487a (6)	

Minor — elementary school (Open only to students pursuing a teaching major in education, health education, music education, physical education, or special education who will receive either elementary teaching certification or kindergarten-twelfth grade certification.)

Students should receive counseling from the faculty in the elementary school physical education area prior to enrolling in any of these courses. Students completing the following sequence of courses may have their elementary or special teaching certificates validated for teaching elementary school physical education.

PEP 137, 138, 237, 238, 241, 332, 333, and 428 (27)	PEP 387 (1), 433, 438, and/or 487(1) (5)
PEP 164, 302, 303, 320, 340, and/or 350 (3-5)	EDCO 382 (4-6)

Minor — secondary school (meets high school certification) (38 hours)

PEP 105, 107, 302, 352, and 412 (18)	PEP 161, 162, 163, 170, 360, 433, 361; HED 109, 110, 313, 409; SSM 328, 329, 330, 331, 332, 364, 365, 366, 367, 368, 369, 410, and/or 431 (9)
BIOL 331 (5)	
SSM 310 (3)	
PEP 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, and/or 271 (3)	

RECREATION

Four recreation options are available. Students interested in the major must apply for admission, hold a 2.5 ("C+") accumulative grade point average, and be interviewed by a recreation faculty member and the recreation curriculum committee. Transfer students with more than first-quarter junior standing may be required to complete more than six quarters of full-time work to qualify for the degree.

RECREATION ADMINISTRATION

The recreation administration program prepares students for management, supervisory, and leadership positions in park and recreation programs operated at the municipal, county, regional, state, and federal levels, and also at private and industrial levels.

The specialist in recreation administration should be well versed in:

1. personnel management, including hiring and bargaining practices and supervision of personnel;
2. financial management, including budgeting, fund raising, purchasing and inventorying;
3. facility planning and maintenance; and
4. handling of all phases of public relations, including the preparation and interpretation of program material for mass media and "live" audiences, and the setting of policy and procedures for agency and staff.

**There is a specific activity sequence required of students enrolled in this major. An outline of this sequence is available from the Plan II committee.

First year (45 hours)

ENG 112 (4)
SPCH 102 (4)
PEG 100 (3)
Science elective (9)
RED 186 and 205 (7)

Second year (49 hours)

PSYC 201 (5)
Communication elective (4)
Program area (8)
Social science elective (4)
L&EM 430 (4)
Elective (3)

Third year (46 hours)

RED 384, 385, and 488 (24)
PEP 433 (4)
HED 313 (4)

Fourth year (43 hours)

MGMT electives (8)
Social science elective (4)
Elective (9)

Fine arts elective (3)
Program area (6)
Social science elective (4)
RED 387 (1)
SOC 101 (4)

ENG literature (4)
Fine arts elective (3)
MGMT electives (8)
RED 487 (1)
Science elective (5)

Program area (7)
MGMT 305 or 360 (4)
Elective (3)

Fine arts elective (3)
RED 482 and 483 (8)
Program area (11)

RECREATION LEADERSHIP

The recreation leadership program is designed to prepare students to provide leadership in planning and implementing recreation programs sponsored by schools, communities, and agencies in both urban and rural settings.

The specialist in recreation leadership should be well versed in:

1. communicating in a variety of media;
2. understanding interactions between and among individuals and groups within urban and rural settings;
3. planning, implementing, and supervising a variety of recreational activities and programs;
4. understanding the needs and abilities of special populations; and
5. being familiar with a variety of program area skills while specializing in at least two of the following areas: performing and fine arts, physical activity, outdoor recreation, aquatics.

First year (45 hours)

RED 186 and 205 (7)
Science elective (5)
PEG 100 (2)
Program area (7)
RED 387 (1)
Elective (4)

Second year (48 hours)

HED 313 (4)
PSYC 201 (5)
PEG 100 (1)
RED 387 (1)
Social science elective (4)
RED 487 (1)
Elective (4)

Third year (48 hours)

RED 384, 385, and 488 (24)
MGMT 305 (4)
PEP 433 (4)

Fourth year (42 hours)

RED 483 (4)
Fine arts electives (6)
Program area (6)
RED 482 (4)

ENG 112 and
communication (8)
SPCH 102 (4)
SOC 101 (4)
Fine arts elective (3)

Communication electives
(8)
Program area (7)
BA 303 (4)
Science elective (5)
ENG literature (4)

L&EM 430 (4)
Science elective (4)
Social science electives (8)

Social science elective (4)
MGMT elective (4)
Communication elective (4)
Electives (10)

OUTDOOR RECREATION

The outdoor recreation program is designed to prepare students for leadership, supervisory, and management positions in the following areas: organized camping, outdoor interpretation, park management, outdoor recreation, resource development, and outdoor recreation programming in numerous settings serving a variety of populations.

The specialist in outdoor recreation should be well versed in:

1. programming and leading a variety of outdoor recreation activities appropriate to the environment and clientele;
2. teaching skills related to outdoor pursuits;
3. understanding and interpreting the outdoor environment; and
4. designing and managing man-made and natural outdoor recreation facilities and resources.

First year (47 hours)

ENG 112 (4)
SOC 101 (4)
RED 178, 186, and 205 (10)
GEOL 103 (4)
RED 387 (1)
Communication elective (4)
Social science elective (4)

Second year (46 hours)

Science electives (8)
ENG literature (4)
RED 273, 294, 373, and 374
(15)
HED 313 (4)
RED 487 (1)

Third year (44 hours)

RED 384 and 488 (20)
Fine arts elective (3)
Program area (outdoor
activity) (3)

Fourth year (44 hours)

MGMT 305 or 360 (4)
RED 385, 482, and 483 (12)
Social science elective (3)
Program area (6)

BIOL 101 (5)
PEG 100 (2)
GEOG 127 (4)
SPCH 102 (4)
Program area (swimming)
(1)

PEG 100 (1)
PSYC 201 (5)
Fine arts elective (3)
Communication elective (4)
Program area (outdoor
activity) (1)

Social science elective (4)
L&EM 430 (4)
PEP 433 (4)
Electives (8)

Fine arts elective (3)
Science elective (4)
MGMT elective (4)
Electives (8)

RECREATION THEATRE

The recreation theatre program is designed to prepare students for leadership in planning, organizing, and implementing theatre programs in professional, community, and educational theatre. In addition to the requirements for all recreation majors listed below, the candidate in recreation theatre must apply for admission to, and be accepted by, the recreation theatre program committee.

The specialist in recreation theatre should be well versed in:

1. communicating in a variety of media; and
2. planning, implementing, and supervising a variety of theatre programs in a variety of settings.

First year (46 hours)

ENG 112 (4)
PEG 100 (2)
RED 186 and 205 (7)
RED 387 (1)
SOC 101 (4)

Second year (47 hours)

ENG literature (4)
PSYC 201 (5)
THEA 202, 243, and 340 (12)
PEG 100 (1)
Science elective (5)

Third year (47 hours)

MGMT 305 or 360 (4)
RED 384 and 488 (20)
Fine arts elective (3)
HED 313 (4)
Elective (3)

Fourth year (43 hours)

THEA 342, 343, and 344 (11)
RED 385, 482, and 483 (12)
Program area (1)
Electives (8)

THEA 145, 146, and 241 (12)
Science electives (9)
Social science elective (3)
SPCH 102 (4)

Fine arts electives (6)
L&EM 430 (4)
Social science elective (3)
RED 487 (1)
Electives (6)

PEP 433 (4)
THEA 341 (4)
Communication elective (4)
RED 487 (1)

MGMT elective (4)
Communication elective (4)
Social science elective (4)

School of Technology

Jerry Streichler, *Director*, 208 Technology Building, 372-2436

The School of Technology offers two degree programs. Those programs leading to the Bachelor of Science in Education are appropriate for those students interested in teaching at junior or senior high schools or at technical colleges. The programs leading to the Bachelor of Science in Technology are designed for those planning to seek a position in business or industry.

BACHELOR OF SCIENCE IN EDUCATION

The School of Technology offers several programs in industrial education and technology which lead to the Bachelor of Science in Education degree. These programs include several options and minors.

Professional education and general education requirements are specified on page 73.

INDUSTRIAL EDUCATION AND TECHNOLOGY

208 Technology Building, 372-2436

Major curriculum — industrial arts (meets special certification, kindergarten-twelfth grade)

First year (46 hours)

ENG 112 (4)	TECH 121, 152, and 191 (12)
SPCH 102 (4)	PEG 100 (3)
DESN 104 (4)	ENG literature (4)
MFG 113 and 114 (8)	Social science elective (4)
EDCO 202 (3)	

Second year (48 hours)

PHYS 214 or CHEM 111 by advisement (4-5)	DESN 204 (4)
CS 101 (5)	MFG 214 (4)
PSYC 201 (5)	CONS 235 (4)
VCT 203 (4)	IE 252 and 288 (6)
EDFI 302 (4)	ET 291 (4)
	Science or MATH elective (4-5)

Third year (44 hours)

ECON 200 or 202 (4)	IE 316 and 352 (8)
MGMT 305 (4)	EDFI 402 and 408 (8)
Technology concentration (12)	Electives (9)

Fourth year (44 hours)

EDFI 402 and 408 (8)	Technology electives (1)
EDAS 409 (4)	EDCO 331 (15)
Technology concentration by advisement (12)	IE 447, 448, and 449 (8)
	Elective (4)

Minor — industrial arts (meets high school certification) (49 hours)**

One methods course by advisement (4-8)	TECH 191 (4)
Concentration (13)	VCT 203 (4)
DESN 104 (4)	CONS 235 (4)
MFG 113, 114, and 214 (12)	ET 291 (4)

Minor — industrial arts (non-certifiable) (36 hours)**

DESN 104 (4)	VCT 203 (4)
MFG 113 and 114 (8)	CONS 235 (4)
TECH 191 (4)	Concentration (12)

Major curriculum — vocational-industrial education (meets high school certification)

First year (46 hours)

ENG 112 (4)	TECH 121, 152, and 191 (12)
SPCH 102 (4)	EDCO 202 (3)
DESN 104 (4)	PEG 100 (3)
MFG 113 and 114 (8)	ENG literature (4)
Social science elective (4)	

Upper-division students may arrange a minor program with 300- and 400-level courses.

Second year (45 hours)

PHYS 214 or CHEM 111 (4-5) by advisement	TECH 289 (5)
VCT 203 (4)	ET 291 (4)
MFG 214 (4)	PSYC 201 (5)
CONS 235 (4)	CS 101 (4)
IE 252 and 288 (6)	MATH or science elective (4-5)

Third year (43 hours)

ECON 200 or 202 (4)	MGMT 305 (4)
EDFI 302 (4)	Technology concentration by advisement (12)
IE 352 and TECH 389 (9)	EDFI 402 (4)
Technology electives (6)	

Fourth year (52 hours)

EDFI 408 (4)	EDAS 409 (4)
EDCO 331 (15)	Technology concentration by advisement (12)
TECH 389 (5)	IE 447 and 448 (4)
IE 449 and 470 (8)	

Major curriculum — technical college teaching (meets high school certification in industrial arts and qualifications for coordinator of cooperative education program)

First year (55 hours)

ENG 112 (4)	TECH 121, MATH 124, 131, and/or 231 (10)
SPCH 102 (4)	DESN 104 (4)
PHYS 214 (5)	MFG 113 and 114 (8)
PHYS 215 or 216 (5)	TECH 152 and 191 (7)
PEG 100 (3)	
EDCO 202 (3)	

Second year (50 hours)

PSYC 201 (5)	IE 252 and 288 (6)
VCT 203 (4)	TECH 289 (5)
DESN 204 and 243 (9)	ET 291 (4)
MFG 214 (4)	CS 101 (5)
CONS 235 (4)	ENG literature (4)

Third year (41 hours)

ECON 200 or 202 (4)	EDFI 302 (4)
MGMT 305 (4)	IE 352 and TECH 389 (9)
Technology concentration by advisement (12)	Social science elective (4)
	EDFI 402 (4)

Fourth year (48 hours)

EDFI 408 (4)	EDAS 409 (4)
EDCO 331 (15)	TECH 389 and IE 449 (9)
Technology concentration by advisement (12)	IE 447 and 448 (4)

Major curriculum — industrial education/special education (meets high school certification in industrial arts and special certification in educable mentally retarded)

First year (48 hours)

DESN 104 (4)	ENG literature (4)
MFG 113 and 114 (8)	MATH or science elective (4)
TECH 121, 152, and 191 (12)	ENG 112 (4)
IE 288 (4)	PEG 100 (3)
EDCO 202 (3)	SPCH 102 (4)

Second year (40 hours)

PHYS 214 or CHEM 111 (4-5) by advisement	IE 252 (4)
VCT 203 (4)	ET 291 (4)
MFG 214 (4)	PSYC 201 (5)
CONS 235 (4)	CS 101 or 103 (4-5)
EDSE 456 (4)	EDCI 355 (3)

Third year (47 hours)

ECON 200 or 202 (4)	EDSE 431, 433, 451, and 453 (15)
EDFI 302 (4)	Technology concentration by advisement (8)
IE 316 and 352 (8)	
CDIS 423 (4)	
MGMT 305 (4)	

Fourth year (52 hours)

EDFI 402 and 408 (8)	EDSE 442, 443, 447, 448, and 457 (17)
EDCO 331 (15)	EDAS 409 (4)
IE 447, 448, and 449 (8)	

Major curriculum — industrial arts/special needs vocational education (meets high school certification in industrial arts and OWE/OWA certification)

First year (46 hours)

ENG 112 (4)	DESN 104 (4)
PEG 100 (3)	MFG 113 and 114 (8)
SPCH 102 (4)	TECH 121, 152, and 191 (12)
ENG literature (4)	Social science elective (4)
EDCO 202 (3)	

Second year (47 hours)

PHYS 214 or CHEM 111 (4-5) by advisement	IE 252 and 288 (6)
VCT 203 (4)	ET 291 (4)
MFG 214 (4)	PSYC 201 (5)
CONS 235 (4)	CS 101 or 103 (4-5)
Electives (8)	Science or MATH elective (4-5)

Third year (43 hours)

MGMT 305 (4)	ECON 200 or 202 (4)
EDSE 431 and 433 (7)	EDCI 360 (3)
Technology electives (8)	BUSE 370 (4)
Other elective (4)	IE 352 (4)

Fourth year (47 hours)

EDFI 402 and 408 (8)	IE 447, 448, and 449 (8)
EDCO 331 (15)	EDFI 412 (4)
BUSE 462 and 470 (8)	EDAS 409 (4)

Major curricula — junior and senior transfer students wishing to teach industrial-technical subjects

The student who presents an associate degree with a technical specialization may have the degree fully accepted in place of the first two years at Bowling Green. The specialization of the associate degree should be technically compatible with one or more of the three options described below and be awarded by an institution approved by the Board of Regents or regionally accredited. These program options exist for persons who want to teach in the subject matter of their associate degree specialization.

Option A — industrial arts teaching

A student who completes the work in the following outline is qualified to teach industrial arts in elementary, middle, and junior and senior high schools and receives an Ohio Provisional Special Certificate (kindergarten-twelfth grade) in the field.

Third year (48 hours)

EDCO 202 (3)	VCT 203 (4)
EDFI 302 (4)	MGMT 305 (4)
TECH 152 (3)	Technology upper-division
IE 252 and 288 (6)	core by advisement (24)

Fourth year (53 hours)

EDFI 402 and 408 (8)	IE 316, 352, 449, 447, and
EDCO 331 (15)	448 (16)
EDAS 409 (4)	Technology electives (10)

Option B — vocational-industrial teaching

Depending upon the technical specialty and the nature of cooperative internships, students may be eligible to receive Ohio Provisional Certificates, i.e., a provisional certificate as a trade and industrial education teacher (EDb-301-14-04), or provisional certificates in other specific vocational areas.

Third year (52 hour)

IE 288 (2)	EDCO 202 (3)
EDFI 302 (4)	MGMT 305 (4)
TECH 152, 289, and 389 (13)	Technology electives by
IE 252 and 352 (8)	advisement (14)
VCT 203 (4)	

Fourth year (53 hours)

EDFI 402 and 408 (8)	EDAS 409 (4)
EDCO 331 (15)	TECH 389 and IE 449 (9)
IE 447 and 448 (4)	Technology electives by
Social and behavioral	advisement (6)
science electives (7)	

Option C — technical college teaching

No certificates are required for teachers of technical subjects on the post-high school level. However, those interested in this professional work must complete, with some options, the course work listed in option B and upon completion of the bachelor's degree requirements are urged to immediately enroll in a Master of Education program that combines post-high school level teaching, cooperative internships, and formal course work.

Vocational work experience

See work experience, College of Education, page 82.

BACHELOR OF SCIENCE IN TECHNOLOGY

Bachelor of Science in Technology programs are designed for the student interested in the application of arts and sciences to the technologies of industry. Career opportunities exist in a growing area of service. Emphasis is placed on technical processes and personnel leadership with such employment classifications as: construction supervision, production management, technical sales, product design, quality control, technical service training, cost and systems analysis. These classifications are used in all segments of our enterprise system including the automotive, construction, pollution control, communications, glass, and plastics industries. The University's geographical location is such that excellent cooperation exists with companies and government agencies requiring well-prepared individuals in technology.

A unique strength of this curriculum is flexibility. During the second year of study, the student, in cooperation with the adviser, selects courses from the appropriate technology concentration, management, marketing, the physical sciences, communications, and the humanities. Industrial experience is gained through the University-sponsored cooperative internship program which is required of all technology majors.

A candidate for the degree of Bachelor of Science in Technology must complete the following requirements for graduation in addition to those listed on page 7.

1. complete 60 or more quarter hours of credit in courses numbered 300 or above.
2. meet all requirements for a major including prerequisites, laboratory experiences, and other regulations.
3. a candidate for graduation must file credentials of personal data with the Office of Placement Service not later than the second week of the final quarter or summer term.

AEROTECHNOLOGY

214 Technology Building, 372-2436

The aerotechnology concentration is designed to prepare students for responsible positions in aviation. The work is organized around three sequences entitled airport operations, aircraft maintenance, and flight technology. The student should choose two of these sequences for a program.

First year (47 hours)

ENG 112 (4)	SOC 101 (4)
SPCH 102 (4)	MATH (10)
GEOG 125 (4)	DESN 104, MFG 113, TECH
PEG 100 (3)	152 and 191 (15)
Elective (3)	

Second year (47-48 hours)

ENG literature elective (4)	CS 101 (5)
PSYC 201 (5)	PHYS 214, 215, or 216 (5)
MFG 114 (4)	CONS 235 (4)
TECH 289 (5)	ET 291 (4)
Social science elective (4)	AERT 341 and 342 (4)
Elective (3)	

Third year (45 hours)
MGMT 305 or 360 (4)
TECH 389 I (5)
TECH elective (4)
MATH/science elective (5)

LEGS 301 (4)
Aerotechnology sequences
(by advisement) (20)
Elective (3)

Fourth year (44 hours)
TECH 389 II (5)
Communications elective (4)
Business electives (8)

Aerotechnology sequences
(by advisement) (24)
Elective (3)

CONSTRUCTION TECHNOLOGY

211 Technology Building, 372-2436

This technology curriculum is designed to prepare personnel for technical positions both on the construction site and in the office. The three options offered recognize the special requirements of residential, general (including commercial, industrial, and civil), and mechanical/electrical construction. Each option requires course work in the areas of science and mathematics, general education, business, industrial technology, construction job control, design, and methods and materials. Supervised, cooperative internships with a construction-related employer are required.

First year (47 hours)

PEG 100 (3)
SPCH 102 (4)
DESN 104 (4)
MFG 113 and 114 (8)
TECH 152 (3)
CONS 235 (4)

ENG 112 (4)
SOC 101 (4)
MATH 124 and 125 (10); or
MATH 131 and 231 (10)
Elective (3)

Second year (47-48 hours)

ENG literature (4)
PSYC 201 (5)
PHYS 214 (5)
CONS 318 (5) (residential
and general option) or
ET 347 (5) (mechanical/
electrical option)

CS 101 or 103 (4-5)
TECH 191 (4)
ET 291 (4)
DESN 301 (5)
Social science electives (8)
Other elective (3)

Third year (42-47 hours)
CONS 306, 307, and 406 and
MFG 323 (17) (residential
option); or CONS 307,
435, and 437 and DESN
243 (16) (general option);
or CONS 337, ET 357, and
ENVR 421 (12)
(mechanical/electrical
option)

TECH 289 (5)
CONS 335 (4)
LEGS 301 (4)
MGMT 305 or 360 (4)
Approved communications
elective (4)
Approved MATH/science
elective (5)
Other elective (4)

Fourth year (42-47 hours)

Construction electives:
residential option —
CONS 337, 490, or ET 357
(4) and a construction
elective (4); general and
mechanical/electrical
options — CONS 406, 407,
or 490 (4) and a
construction elective (5)

TECH 389 (19) I and II
CONS 439 and 440 (8)
Approved business elective
(8)
Other electives (8-12)

DESIGN TECHNOLOGY

218 Technology Building, 372-2436

This program involves the efficient application of arts, sciences, technology, and business to the process of design in industry. The arts involve the development of communicative working drawings, renderings, and models. The scientific knowledge required includes a basic understanding of mathematics, physics, and computer science. The technology of manufacturing and construction and selected courses in business complement and complete the design program. An important component of this technology curriculum is a cooperative internship in a design or design-related position in industry which is supervised by University faculty.

ARCHITECTURAL/ENVIRONMENTAL DESIGN OPTION

This technology prepares students to deal with the architectural designs associated with the exterior and interior of such buildings as residences, schools, and municipal projects.

First year (47 hours)

ENG 112 (4)
SOC 101 (4)
TECH 152 (3)
ART 102 and 103 (8)
*Arch./Env. Concentration (3)
PEG 100 (3)

SPCH 102 (4)
DESN 104 (4)
MFG 113 (4)
CS 101 or 104 (5)
Elective (5)

Second year (47 hours)

ENG literature (4)
PSYC 201 (5)
MFG 114 (4)
TECH 289 (5)
*Arch./Env. Concentration (4)

Approved MATH/science
(14-15)
ART 112 (3)
DESN 204 (4)
Approved business elective
(4)

Third year (45 hours)

TECH 389 I (5)
DESN 243 (4)
Social science elective (4)
Electives (2)
*Technical electives (8)

ENG 488 (4)
Approved business elective
(4)
*Arch./Env. Concentration
(14)

Fourth year (44 hours)

TECH 389 II (5)
*Arch./Env. Concentration
(13)

*Technical electives (9)
Business electives (8)
Electives (9)

*Courses for the architectural/environmental design concentration and technical electives are derived from the following offerings:

Arch./Env. required courses

CONS 235, 307, 439, and
440 (16)

DESN 301 and 450 (9)
ART 213, 313, and 414 (9)

Technical electives

DESN 305 and 436 (8)
GEOG 321 (4)
VCT 203 (4)
HOEC 319 (4)

TECH 489 (5)
Other TECH/ART courses
by advisement

MECHANICAL DESIGN OPTION

This technology prepares the student to design tools and machines for manufacturing processes, which also includes the practical aspects of generation and transmission of heat and fluid power.

First year (45 hours)

ENG 112 (4)
SOC 101 (4)
ART 102 and 103 (8)
MFG 113 (4)
TECH 152 (3)

PEG 100 (3)
SPCH 102 (4)
CS 101 or 104 (5)
DESN 104 (4)
Electives (6)

Second year (48 hours)

ENG literature elective (4)
PSYC 201 (5)
MFG 114 (4)
TECH 289 (5)
Social science elective (4)

**Mechanical design
concentration (4)
ART 112 (3)
DESN 204 (4)
Approved MATH/science
sequence (15)

Third year

TECH 389 I (5)
DESN 243 (4)
**Mechanical design
concentration (12)
Elective (2)

ENG 488 (4)
Approved science sequence
(10)
Approved business elective
(8)

Fourth year (45 hours)

TECH 389 II (5)
**Mechanical design
concentration (20)

**Approved technical
electives (15)
Electives (5)

**Courses for the mechanical design concentration and technical electives are derived from the following offerings:

Mechanical Design required courses

DESN 304, 455, and 490 (12) MFG 338 and 426 (8)
 ET 347 and 441 (8) TECH 454 (4)
 CONS 337 (4)

Technical electives by advisement

MFG 214 and 391 (8) TECH 489 (5)
 Other technical courses by advisement

PRODUCT DESIGN SPECIALIZATION

This technology involves the design of products with the aid of technology and art. The program prepares the student to develop creative solutions to three dimensional problems involving aesthetics, materials, manufacturing processes, and human factors. This is a cooperative program between the School of Technology and the School of Art.

First year (46 hours)

ENG 112 (4)	SOC 101 (4)
PEG 100 (3)	SPCH 102 (4)
ART 102 and 103 (6)	CS 101 or 104 (5)
MFG 113 (4)	DESN 104 (4)
TECH 152 (3)	Electives (7)

Second year (47 hours)

ENG literature elective (4)	ART 112 (3)
PSYC 201 (5)	MFG 114 (4)
DESN 204 (4)	TECH 289 (5)
Approved business elective (4)	Approved MATH/science (14-15)

*Product design specialization (4)

Third year

TECH 389 I (5)	ENG 488 (4)
DESN 243 (4)	Approved business elective (4)
*Product design specialization (14)	Social science elective (4)

*Technical electives (11)

Fourth year (44 hours)

TECH 389 II (5)	Technical electives (8)
*Product design specialization (14)	Business electives (8)
	Electives (9)

*Courses for the product design specialization and technical electives are derived from the following offerings:

Product design required courses

ART 147, 211, 212, 313, 314, 416, and 419 (21)
 ART 145 or 146 (3)
 DESN 304 and 452 (8)

Technical Electives

ART 414, 416, and/or 418 (9-12)
 DESN 404 (4)
 TECH and ART courses by advisement

Other programs

Three other design specializations are available: graphic design and environmental design in the School of Art and interior design in the Department of Home Economics.

ELECTRONIC TECHNOLOGY

210 Technology Building, 372-2436

The program in electronic technology is a comprehensive study of the diverse areas of electronics (circuits, devices, computer interfacing and systems) with theory emanating from physics, mathematics, and computer science. This knowledge is blended with a core study of industrial technology, management, business, and social sciences to develop flexibility in employment and supervisory abilities. An important component of this technology curriculum is a cooperative internship program in industry which is supervised by University faculty.

First year (47 hours)

ENG 112 (4)	SPCH 102 (4)
SOC 101 (4)	DESN 104 (4)
TECH 121 and MATH 124 (10); or MATH 124 and 125 (10); or MATH 131 and 231 (10)	MFG 113 (4)
PEG 100 (3)	TECH 152 and 191 (7)
	ET 291 (4)
	Elective (3)

Second year (45 hours)

CS 101 (5)	PSYC 201 (5)
PHYS 214, 215, and/or 216 (10)	MFG 114 (4)
Electronic concentration (8)	TECH 289 (5)
ENG literature (4)	CONS 235 (4)

Third year (46 hours)

TECH 389 (5) I	Approved business elective (8)
Electronic concentration (16)	Social science electives (8)

Fourth year (45 hours)

TECH 389 (5) II	IPCO 306 or 307 (4)
Technical elective (4)	Electronic concentration (12)
Approved business electives (12)	Other electives (8)

INDUSTRIAL ENVIRONMENT TECHNOLOGY

210 Technology Building, 372-2436

This program consists of studies in industrial and engineering technology, business, and the sciences. Technical problem solving in manufacturing, instrumentation, and process control give students an appreciation of industrial production practices, while studies in business emphasize consideration of the organizational, legal, and financial principles involved. The sciences, primarily chemistry and biology, offer students the opportunity to develop an in-depth understanding of the chemical nature of pollutants and their effect on the ecological system. An important component of this technology curriculum is a cooperative internship program in industry which is supervised by University personnel.

First year (45 hours)

ENG 112 (4)	TECH 152 (3)
BIOL 201 (4)	SPCH 102 or IPCO 203 (4)
CHEM 121 and 122 (10)	PEG 100 (3)
DESN 104 (4)	MATH 124 or 131 (5)
Electives (7)	

Second year (49-50 hours)

CS 101 or 103 (4-5)	CHEM 123 (5)
BIOL 202 and 203 (10)	PSYC 201 (5)
MFG 113 and 114 (8)	MATH 125 or 231 (5)
TECH 191 (4)	ET 291 (4)
Elective (3)	

Third year (46 hours)

MGMT 305 and 331 (8)	BIOL 301, 321, and 322 (13)
MFG 214 (4)	TECH 389, 391, and 454 (14)
CONS 235 (4)	Elective (4)

Fourth year (43 hours)

LEGS 301 (4)	DESN 243, 436; CONS 307, 335; MFG 329, 361, 459; ET 347, 348, 441; ENVR 421, and/or 490 (25)
Electives in MGMT, BA, or LEGS (8)	
Other elective (6)	

INDUSTRIAL TRAINING TECHNOLOGY

217 Technology Building, 372-2436

Industrial trainer preparation is an interdisciplinary program of studies consisting of blocks of course work in technology, instruction technology, related social sciences, and management. The combination of practical/laboratory studies, applied disciplines, and actual work experience (cooperative internships) will enable the graduate to function confidently in the industrial training role.

First year (47 hours)

ENG 112 (4)

SPCH 102 (4)

MATH elective (by
advisement) (5)

Other electives (8)

Second year (49-51 hours)

PHYS 214 or CHEM 111 by
advisement (4-5)

ECON 200 or 202 (4)

PSYC 201 (5)

CS 101 or 103 (4-5)

VCT 203 (4)

Third year (45 hours)

EDFI 302 (4)

ENG 488 (4)

IE 352 (4)

VCT 282 and 466 (8)

Other elective (4)

Fourth year (42 hours)

EDFI 402 (4)

Electives in MGMT, by
advisement (12)

PEG 100 (3)

ENG literature (4)

DESN 104 (4)

MFG 113 and 114 (8)

TECH 152 and 191 (7)

DESN 204 (5)

MFG 214 (4)

CONS 235 (4)

IE 252 and 288 (6)

TECH 289 (5)

ET 291 (4)

MGMT 360 (4)

Electives in PSYC, and/or
SOC by advisement (12)

TECH 389 (5)

L&EM 435 and 455 (8)

TECH 389 (5)

IE 428 (4)

Other electives (9)

MANUFACTURING TECHNOLOGY

210 Technology Building, 372-2436

This field of study draws upon the principles of mathematics and the physical sciences and applies them to industrial problems related to manufacturing systems. An understanding of the computer and its utilization in designing, monitoring, and controlling manufacturing processes is also an important part of studies in manufacturing technology. In addition to these technical studies, the curriculum offers excellent opportunities for studies in management and industrial psychology. An important component of this technology curriculum is a cooperative internship program in industry which is university supervised.

First year (48 hours)

ENG 112 (4)

SOC 101 (4)

SPCH 102 (4)

DESN 104 (4)

MFG 113 and 114 (8)

TECH 152 and 191 (7)

Second year (45 hours)

CS 101 or CS 103 (4-5)

PHYS 214, 215, and/or
216 (10)

DESN 204 (4)

MFG 214 (4)

Third year (47 hours)

IPCO 306 or 307 (4)

TECH 389 (5) I

VCT 203 (4)

CONS 235 (4)

DESN 243 (4)

Fourth year (43-44 hours)

TECH 389 (5) II

ENG 488 (4)

MFG 426 and 427 (8)

Other electives (8)

ENG literature elective (4)
TECH 121, MATH 124, or
131 (5)

PEG 100 (3)

MATH 115 (5)

PSYC 201 (5)

MATH 124, 125, or 231 (5)

TECH 289 (5)

ET 291 (4)

ECON 200 (4)

MFG 338 (4)

Social science elective (4)

Business electives (10)

Manufacturing
concentration (8)

Business electives (10)

Manufacturing
concentration (11-12)

VISUAL COMMUNICATION TECHNOLOGY

215 Technology Building, 372-2436

The visual communication technology program prepares students for media production, training, sales, and management positions within the communications industry. These careers require general and specific technical competencies in design, printing, television, film, display, and photography. With help from an adviser, each student during his or her junior year selects an occupational cluster for specialization from 21 possible career clusters. The total program proceeds through a framework of analyzing and applying the many methods of creating, reproducing, and distributing visual communications materials. Students ultimately combine concepts, theories, and principles with critical and creative-technical problem solving abilities to generate solutions for visual communication problems.

By developing the ability to solve communications problems, students will be prepared for such technological production and management positions as advertising production, graphic design, commercial and industrial photography, motion picture and television graphics, multimedia production, printing and publishing plant control, and similar occupations.

Courses in visual communication technology occupational clusters are chosen individually by each student with the assistance of an adviser. The 21 occupational clusters are: display production, display marketing/sales, display management, photographic production, photographic marketing/sales, photographic management, photographic training, print production, print marketing/sales, print management, print training, film production, film marketing/sales, film management, film training, television production, television marketing/sales, television management, television training, industrial media specialist, visual communications generalist.

Students who have obtained an associate degree in an allied communication area may pursue a bachelor's degree in visual communication technology by enrolling in the curriculum for transfer students.

First year (46 hours)

Science requirement (8)

SPCH 102 (4)

JOUR 103 or 105 (4)

TECH 152 (3)

VCT 203 (4)

PEG 100 (3)

Second year (45-46 hours)

PSYC 201 (5)

ECON 200 (4)

VCT 208 and 282 (8)

Electives (8)

Third year (48 hours)

MGMT 305 (4)

TECH 389 (5) I

Visual communication
occupational cluster (20)

Fourth year (44 hours)

TECH 389 (5) II

VCT 490 (4)

Electives (15)

ENG 112 (4)

SOC 101 (4)

ART 101 (3)

TECH 121, MATH 124 or
131 (5)

Elective (4)

CS 101 or 103 (4-5)

ART 211 (3)

RTVF 263 and 264 (8)

TECH 289 (5)

MKT 300 (4)

ART 311 (3)

VCT 467 (4)

Electives (8)

Visual communication
occupational cluster (20)

CURRICULUM FOR TRANSFER STUDENTS IN TECHNOLOGY PROGRAMS

208 Technology Building, 372-2436

For students who have earned an associate degree in an engineering or related technology from a regionally or Ohio Board of Regents accredited post-secondary institution, the upper division program (junior and senior years) is designed by the student and an adviser in one of the technology programs listed.

At least 97 hours must be earned at Bowling Green State University. After analysis of the student's credentials, appropriate courses are selected by the student and adviser to best fulfill career objectives.

The upper division program and the associate degree combined should result in a distribution of courses in fields with minimum quarter credit hours as follows:

Communication (ENG, SPCH, IPCO, RTVF, literature, technical report writing)

16 hours required for all technology programs

Social science (GEOG, HIST, ECON, SOC, PSYC, POLS, LEGS)

20 hours required for all technology programs

Science and mathematics

25 hours required in all technology programs except environment technology and visual communication technology; 53 hours required for environment and 18 hours for visual communication.

Business (MGMT, MKT, ECON, LEGS, ACCT, STAT, MIS, OPRE)

20 hours required in all technology programs except visual communication technology which requires only eight.

Technology core

31 hours required in design, electronics, and manufacturing technology; 33 hours in visual communication technology; 27 hours in construction technology; and 40 hours in environmental technology.

Technology concentration (16 hours in this area must be taken at Bowling Green)

43 hours required in design, electronics, and manufacturing technology; 47 hours in construction technology; 53 hours in visual communication technology; and 25 hours in environmental technology

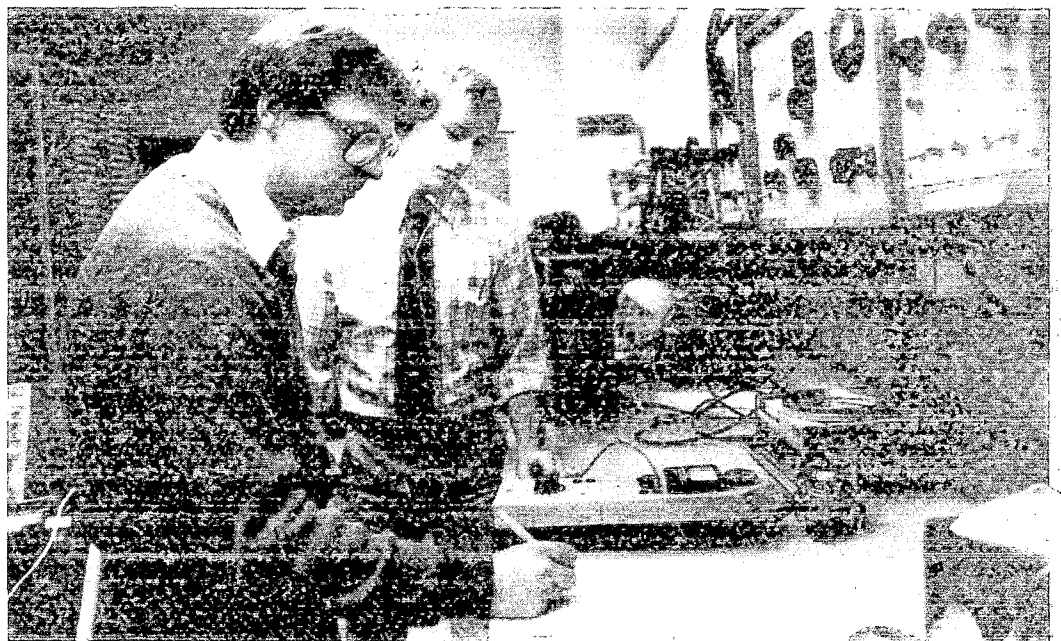
Cooperative internship

10 hours required for all technology programs

Electives

23 hours required for construction, design, electronics, and manufacturing technology; 18 hours in environment technology; and 35 hours in visual communication technology





COLLEGE OF HEALTH AND COMMUNITY SERVICES

Joseph K. Balogh, *Dean*, 100 Health Center, 372-0242
Edward E. Morgan, *Assistant Dean*, 102 Health Center, 372-0242

Gay C. Price, *Director of Program Advisement*, 102 Health Center, 372-2042

Applied Microbiology, Raymond Horvath, Ph.D., *Director*, 536 Life Sciences Building, 372-2731

Child and Family Community Services, Sara Derrick, Ph.D., *Director*, 206 Johnston Hall, 372-2026

Criminal Justice, Gerald Rigby, Ph.D., *Director*, 120A Health Center, 372-2326

Dietetics, Millicent deOliveira, M.S., *Director*, 206 Johnston Hall, 372-2026

Environmental Health, William Jackson, Sc.D., *Director*, 124 Hayes Hall, 372-0207

Gerontology, John Hiltner, Ph.D., *Director*, 120A Health Center, 372-2326

Medical Record Administration, Janis Fisher, B.S., *Director*, 102 Health Center, 372-0242

Medical Technology, William Hann, Ph.D., *Director*, 111 Life Sciences Building, 372-0109

Parasitology and Medical Entomology, Lee Rockett, Ph.D., *Director*, 102 Health Center, 372-0242

Speech Pathology and Audiology, Melvin Hyman, Ph.D., *Director*, 338B South Hall, 372-2223

Social Work, Evan Bertsche, M.A., *Director*, 220 Williams Hall, 372-2441

School of Nursing, Grace Chickadonz, Ph.D., *Director*, 101 Health Center, 372-0242

ACADEMIC ADVISING

Each student is assigned a faculty adviser within the program selected. In addition, career guidance and counseling services are provided for students in the college office located in the Health Center. The responsibility for meeting graduation requirements lies with the student and not with the adviser, the program director or the dean. Reading and following the information in the *General Bulletin* is essential. The Office of the Dean requires that each senior-level student complete a senior check sheet which is evaluated by the college advising office.

DEGREES OFFERED

Twelve degrees are awarded by the College of Health and Community Services and its School of Nursing. They are:

- Bachelor of Science in Applied Microbiology
- Bachelor of Science in Child and Family Services
- Bachelor of Science in Criminal Justice
- Bachelor of Science in Dietetics
- Bachelor of Science in Environmental Health
- Bachelor of Science in Gerontology
- Bachelor of Science in Medical Record Administration
- Bachelor of Science in Medical Technology
- Bachelor of Science in Parasitology and Medical Entomology
- Bachelor of Science in Social Work
- Bachelor of Science in Speech Pathology and Audiology
- The School of Nursing awards the Bachelor of Science in Nursing.

A candidate for any Bachelor of Science degree in the College of Health and Community Services or School of Nursing must complete the general requirements for graduation listed on page 7. In addition, all students must complete a senior check sheet. Required internships, field work, and clinical practicums completed during the last 45 hours will be considered as in residence even though they may be taken off campus.

GENERAL EDUCATION REQUIREMENTS

Each program major insures a breadth of knowledge by means of specific general education requirements. To maintain program flexibility, the college requires that each student take a minimum of 40 quarter hours in general education. General education requirements should be started as early as possible. If the student knows which program major he or she wants to pursue, course work in this area may be started during the first year on campus; however, selection of the program major may be delayed until the second quarter of the sophomore year.

Students select a minimum of two courses totalling at least eight credit hours in *either* Group I or Group II *and* two courses totalling at least eight credit hours in *each* of the other groups. One course may not be used to fulfill the requirements of two groups.

GROUP I: COMMUNICATION

Any courses in SPCH and/or IPCO

*ENG 207, 208, 308, and/or 488

PHIL 103

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

Two courses in the same foreign language as taken in high school, or one course in a foreign language if high school preparation included four years of one language (must be in same language as taken in high school). Cultural series courses will *not* be accepted. If a student wants to begin a new language, three quarters must be taken to satisfy this group requirement.

GROUP III: MATHEMATICS AND NATURAL SCIENCE

Any courses in BIOL, CHEM, GEOL, MATH, and/or PHYS

*GEOG 125, 126, 127, 213, 404, and/or 471

PHIL 303

GROUP IV: SOCIAL SCIENCES

Any courses in ECON, GEOG, HIST, POLS, PSYC, and/or SOC

GROUP V: ARTS AND HUMANITIES

Any courses in POPC and/or THEA

ART 101 and/or any courses in art history

ENG literature

Music theory and appreciation

PHIL (except PHIL 303)

Foreign language cultural series courses

GROUP VI: APPLIED ARTS AND SCIENCES

Any courses in AERO, AERT, BUSE, CONS, CS, DESN, ENVR, ET, IE, GERO, HOEC, JOUR, LEGS, MFG, MGMT, MKT, NURS, SOWK, STAT, TECH, and/or VCT.

*ACCT 221, 222, and/or 325

Any ART studio courses

*EDFI 302 and/or 342 (others by permission)

*EDSE 431, 451, and/or 453 (others by permission)

*HED 109, 110, 209, and/or 314

L&EM 428, 430, 431, 434, and/or 435

MATH 115

*MIS 200 and/or 475

Any music composition and/or performance courses

*PEP 302, 303, 322, and/or 443

PHIL 103

*PSYC 270 and/or 271

SOC 369

*SSM 310 and/or 313

Grading option

A student may request the S/U grading option in as many as 12 courses in a baccalaureate degree program, in addition to courses universally graded on an S/U basis. (Please refer to grading system for University requirements regarding S/U standards).

*Only the courses specified meet requirements; they need not be taken in the order listed.

The college standard on S/U grading is as follows: Within the limits set by University policy on S/U grades, students in the College of Health and Community Services shall be permitted to exercise the S/U grade option only for electives, general education group requirements, or practicums, provided that the individual program directors can further direct the use of the S/U option for students in their program.

DEGREE PROGRAMS

In most cases, the sequence of courses listed below must be completed in order to meet the requirements for the major or for professional certification. Some courses may be substituted upon the recommendation of the program director, with final approval resting with the dean of the College of Health and Community Services.

APPLIED MICROBIOLOGY

536 Life Sciences Building, 372-2731

Microbiology is a practical science that makes important contributions to medicine, industry, and agricultural and environmental control. Microbiologists are employed by medical or clinical laboratories for detection and diagnosis of disease. Public health laboratories use microbiological procedures in testing water supplies for potability and in quantifying incidences of communicable diseases.

Microbiologists working as public health officials consult with infected individuals to control the spread of diseases such as those which are sexually transmitted. Microbiological procedures are imperative for quality control in the food, dairy or liquor industries. Fermentation by microbes yields antibiotics manufactured by pharmaceutical companies.

Sanitation laboratories employ microbiologists for the safe treatment of sewerage. Additionally, the small size and simple organization of microorganisms makes them the most effective subjects for studying life at its most fundamental level. Research with microbes has made important contributions to the understanding of genetics and cancer. Microbiological screens presently are being used to detect hazardous chemicals which could cause cancer if widespread in the environment.

Students complete courses in chemistry, bacteriology, virology, immunology, pathogenics, microbial physiology and microbial genetics. They may also perform independent research projects in addition to coursework. During the senior year, students may choose to take examinations to prepare for qualification as a registrant of the National Registry of Microbiologists of the American Academy of Microbiology. Alternately, this examination may be taken after a period of job experience.

An individual with the Bachelor of Science in Applied Microbiology from Bowling Green can pursue advanced degrees in medical schools or universities to specialize in pathology, protozoology, virology, microbial genetics, immunology and food science.

Suggested program

First year

BIOL at introductory level, according to student goals (10)	PEG 100 (3)
MATH 131 or equivalent (5)	CHEM 121, 122, and 123 (15), or CHEM 131, 132, and 133 (15)
Electives and group requirements	ENG 112 or equivalent (4-8)

Second year

CHEM 201, 306, 308, and 309 (16), or CHEM 201, 343, and 344 (14), or CHEM 343, 344, and 345 (14)	BIOL 313 and 421 (10)
	Electives and general education requirements

Third year

BIOL 426 and 443 (10)	CHEM 345 (if CHEM 201-343-344 sequence, above, is chosen) (4)
BIOL 405, 406, 407, 409, 410, 424, 436, and/or 439 (10)	Program seminars (2 hours each) (2-4)
General education requirements	

Fourth year

BIOL 401, 405, 406, 407, 410, 424, 436, 439, and/or 470 (15)
General education requirements

CHEM 308 and 309 (6), or CHEM 445 and 447 (8)
Program seminars (2 hours each) (2-4)

Other programs

Microbiology is offered as a program by the Department of Biology in the College of Arts and Sciences.

CHILD AND FAMILY COMMUNITY SERVICES

206 Johnston Hall, 372-2026

This is a multidisciplinary program for students who wish to concentrate in either children's services or family services. Students may complete both areas of specialization by reducing the number of free electives. Within both areas strong emphasis is placed upon developing personal competencies necessary to provide human services for persons of all ages. Internships in a variety of agencies such as preschools, family courts, mental health and mental retardation clinics, and hospitals complement the program. Students may arrange to study during two or more quarters at Merrill Palmer Institute in Detroit, an internationally known institute for the study of family relations.

Specific courses of study are available for students who wish to pursue careers working with entire families, adolescents, infants and children or other specific groups of individuals. Career options in this program include: teaching and administration within preschools and infant centers, performing services within a variety of human service agencies including hospital based developmental programs.

The Child Family Community Services Program also serves as a foundation for graduate work in related behavioral sciences and as a third and fourth year program for graduates of two-year colleges with a major in related disciplines. Graduates of this program receive a Bachelor of Science in Child and Family Community Services degree.

CHILDREN'S SERVICES OPTION

Suggested program

First year

ENG 112 or equivalent (4-8)	PEG 100 (3)
ART 101 (3)	BIOL 104 (5)
HOEC 105, 120, and 205 (11)	SOC 101 (4)
SPCH 102 (4)	General education requirements and electives

Second year

PSYC 201 (5)	HOEC 107 or 408 (4)
HOEC 207, 224, 320, 321, and 322 (16)	HOEC 387 (2-6)
General education requirements	Recommended professional electives

Third year

HOEC 302, 325, and 435 (9)	IPCO 203 or 306 (4)
ENG 342 (5)	HED 313 (4) or Multimedia First Aid Certificate
Electives	

Fourth year

HOEC 407, 421, 422, and 423 (14)	L&EM 441 (3)
HOEC 489 (5-10)	Recommended professional electives

This program may be modified to meet student needs and interests.

FAMILY SERVICES OPTION

Suggested program

First year

ENG 112 or equivalent (4-8)	ART 101 (3)*
HOEC 105, 120, and 205 (11)	PEG 100 (3)
General education requirements and electives	BIOL 104 (5)*
	SOC 101 (4)

*Recommended elective

Second year
 PSYC 201 (5)
 HOEC 207, 327, and 328 (12)
 HOEC 107 or 408 (4)

Third year
 HOEC 302, 415*, and 426 (12)
 PSYC 307 and 405 (9)

HOEC 405 (5)
 General education requirements and electives

Fourth year
 HOEC 407 and 427 (9)
 HOEC 489 (5-10)

PSYC 440 (3)
 Professional electives

This program may be modified to meet student needs.

Other programs

Programs in related areas are offered through the Department of Home Economics in the College of Education.

CRIMINAL JUSTICE

120A Health Center, 372-2326

The criminal justice program integrates course work and interaction with professionals in various disciplines in preparation for careers in law enforcement, investigative processes, penal institutions, probation and parole work, and other agencies in the criminal justice system. The graduate of the program will receive a Bachelor of Science in Criminal Justice degree. There are two options possible in criminal justice: law enforcement and corrections.

Students in the law enforcement option may begin their program at any of several technical or community colleges with which Bowling Green State University has formal agreements. Cooperative programs have been developed with Owens Technical College, Lima Technical College, Toledo Community Technical College, Lorain County Community College, and North Central Technical College. Completion of a two-year associate degree in law enforcement may allow the student to enter the Bachelor of Science in Criminal Justice degree program with junior-level standing. Students may also choose to complete the entire four-year degree program at Bowling Green.

Students in both law enforcement and corrections must complete, preferably during the senior year, an internship in an appropriate agency. The student is responsible for developing his or her internship site. However, all internships are subject to the approval and supervision of the program director.

LAW ENFORCEMENT OPTION

University and general education group requirements

ENG 112 or equivalent (4-8) PEG 100 (3)
 At least 8 hours in each group of the general education requirements; strongly recommended in group IV:
 SOC 101 (4) PSYC 201 (5)

Core courses (80-81 hours)

POLS 201, 417, and 418 (12)
 SOC 316, 341, 342, 441, and 443 (20)
 POLS 419 or PHIL 318 (4)
 PSYC 454 (4)

SOC 301 or PSYC 311 (3-4)
 SOC 369 or PSYC 270 (4)
 PSYC 405 (5)
 CRJU 210, 220, 230, 240, 250, 310, and 480 (28)
 310, and 480 (28)

Internship (15 hours)

Core electives (24-28 hours)

These courses should be selected carefully to supplement the general education and core requirements. Core electives require approval by the program director. Core electives shall be restricted to 300-400 level courses, except for CS 100 and transfer credit for courses prior to admission to Bowling Green State University. Any course in which a grade of "D" has been recorded will not be accepted in the core or core electives. The following are strongly recommended:

PHIL 327 (4)
 PSYC 305 (3)
 MGMT 305 (4)

POLS 332, 347, 430, and 434 (16)
 CS 100 (4)
 ACCT 325 (4)

Suggested program

First year (41-49 hours)

ENG 112 or equivalent (4-8)
 POLS 201 (4)
 General education courses, groups I, III, IV, V, and VI (17-21)

PEG 100 (3)
 Group IV courses (SOC 101 and PSYC 201 strongly recommended) (9)

Second year (48-55 hours)

CRJU 210, 220, 230, 240, and 250 (21)
 Completion of group requirements.

Third year

CRJU 310 (4)
 Completion of core courses

Core electives

Fourth year

CRJU 480 (4)
 Internship (15)

Completion of core courses and core electives

CORRECTIONS OPTION

University and general education group requirements

Same as law enforcement option

Core courses (86-87 hours)

POLS 201, 417, and 418 (12)
 SOC 316, 340, 341, 342, 352, 369, 370, 441, and 442 (36)
 MGMT 360 and 361 (8)
 CRJU 210 and 480 (8)

SOC 301 or PSYC 311 (3-4)
 PHIL 327 (4)
 PSYC 303, 305, and 405 (11)
 PSYC 454 (4)

Internship (15 hours)

Core electives (26-30 hours)

These courses should be selected carefully to supplement the general education and core requirements. Core electives require approval by the program director. Core electives shall be restricted to 300-400 level courses, except for CS 100 and transfer credit for courses completed prior to admission to Bowling Green State University. Any course in which a grade of "D" has been recorded will not be accepted in the core or core electives.

The following are strongly recommended:

PHIL 318 (4)
 HOEC 408 (check prerequisites) (4)
 ACCT 325 (4)

POLS 332, 347, 419, 422, 430, and 432 (24)
 CS 100 (4)

Consideration should also be given to selection of courses from the law enforcement core major.

Suggested program

First year

ENG 112 or equivalent (4-8)
 POLS 201 (4)
 CRJU 210 (4)
 General education courses, groups I, III, IV, V, and VI

PEG 100 (3)
 Group IV courses (SOC 101 and PSYC 201 strongly recommended) (9)

Second year

Completion of group requirements (15-19)

Core courses
 Core electives

Third year

Core courses

Core electives

Fourth year

Completion of core courses and core electives

CRJU 480 (4)
 Internship (15)

DIETETICS

206 Johnston Hall, 372-2026

A professional program leading to membership and registration in the American Dietetic Association is offered in the College of Health and Community Services. The requirements for registration are an internship or traineeship and the passing of the national examination after graduation. A declaration of intent to pursue the dietetics program should be placed in the college office prior to freshman registration or during the first year at

Bowling Green State University. Admission to the dietetics program requires the completion of 45 quarter hours of credit, approval by the dietetics faculty, and a grade point average of 2.5 or above. The graduate of the program will receive a Bachelor of Science in Dietetics degree.

The dietetics curriculum will meet requirements of the generalist dietetics program as outlined by the American Dietetic Association. After an appropriate internship or traineeship, the graduates of this program will be prepared to function as therapeutic or administrative dietitians in hospitals, extended care facilities, or other institutional food service facilities.

Suggested program

First year (44-48 hours)

BIOL 201 (5)	SOC 101 (4)
ENG 112 or equivalent (4-8)	CHEM 121 and CHEM 122 and CHEM 123 (15)
PEG 100 (3)	HOEC 210 (5)
General education requirements and electives (3)	MATH 124 or equivalent (5)

Second year (48 hours)

BIOL 313 (5)	EDFI 302 (4)
ECON 200 (4)	HOEC 212, 307, 326, and 327 (16)
CHEM 306, 308, and 309 (11)	General education requirements or electives (3)
PSYC 201 (5)	

Third year (45-48 hours)

ACCT 325 (4)	MGMT 360 and 361 (8)
HOEC 331, 333, 405, and 432 (17)	HOEC 389 (suggested elective) (2-5)
MIS 475 or CS 100 or 101 (4)	BIOL 411 (5)
	DESN 301 (5)

Fourth year

HOEC 431, 433, 434, 435, 436, and 480 (23)	Suggested professional electives: HOEC 205, 206, 303, and 324 (3-4 each)
HOEC 489 (elective) (5-10) (may be repeated)	

Other programs

A program in dietetics also is offered in the College of Education through the Department of Home Economics.

ENVIRONMENTAL HEALTH

124 Hayes Hall, 372-0207

This integrated, multidisciplinary program provides future environmental health specialists with the variety of general and professional courses and laboratory, field, and internship experiences necessary for effective functioning within the health delivery system. Career possibilities lie in industrial, recreational, and municipal sanitation; pollution control; housing inspection; food and drug protection; etc. Federal, state, and local government health, environmental, and planning agencies use trained personnel in many of these areas. An individual educated and trained in this major also may work with engineers, chemists, medical and hospital personnel, economists, and others in translating their ideas and objectives into laws, plans, and action programs. A graduate of the program receives a Bachelor of Science in Environmental Health degree.

Suggested program

First year (44 hours)

ENG 112 or equivalent (4-8)	PEG 100 (1)
Communications elective (4)	SOC 101 (4)
MATH 122, 124, 125, or 130 mathematics placement)	BIOL 101 or ENVT 141 (5)
ENVS 101 (2)	CHEM 121, 122, and 123 (15)
	CS or STAT (4)

Second year (46 hours)

Humanities elective (4)	PHYS 101 and 430 (special sections) (8)
ECON 200 or 202 (4)	BIOL 201, 202, and 203 (15)
STAT or CS (4)	CHEM 306 (5)
SOC elective (4)	
PEG 100 (2)	

Third year

ENVT 110, 160, 211, 225, and 260 (21)
ENVT 121 or LEGS 431 (4)
ENVT 226 or 270 (3-4)
(Offered only at Firelands College.)

Fourth year

BIOL 321 (4)
ENVH 404 (4)
General education requirements
POLS 331, 332, 335, or 430 (4)
ENVS 301 and 402 (6)
Electives

This program is subject to revision and may be modified to meet student needs. Electives must be approved by the program director.

Other programs

Environmental programs are also offered by the College of Arts and Sciences, College of Education, and Firelands College. Descriptions of all programs are available at the Center for Environmental Programs, 124 Hayes Hall, 372-0207.

GERONTOLOGY

120A Health Center, 372-2326

The Bachelor of Science in Gerontology degree prepares graduates for positions in agencies and institutions that administer and deliver services for the aged such as: social service agencies, senior centers, nutrition programs, nursing homes, recreation and counseling agencies, and research organizations.

While providing a basic background in general studies, the gerontology program is flexible enough to permit students to design courses of study that will best prepare them for particular types of careers within the general field of aging.

Each student in the gerontology program selects a cognate area from the following: social work, administration, accounting and systems, exercise physiology, biology, activities therapy, long-term-care administration, urban geography and planning, speech communication, psychology, nutrition, recreation, family services. Other cognate areas may be designed by the student and the program director.

During the course of the program, each student completes a field placement in an agency or an institution serving the elderly.

Suggested program

First year

ENG 112 or equivalent (4-8)	PEG 100 (3)
MATH 115 (4)	BIOL 104 (5)
SOWK 110 (4)	SOC 101 (4)
PSYC 201 (5)	HOEC 207 (4)
General education requirements	Cognate requirements
	Electives

Second year

BIOL 332 (5)	IPCO 306 (4)
GEOG 326 (4)	SOC 301 or PSYC 311 (3-4)
IPCO 203 (4)	Cognate requirements
General education requirements	Electives

Third year

MGMT 305 (4)	HOEC 436 (3)
PHIL 319 (4)	PSYC 309 (3)
SOC 463 (4)	SOC 404 (4)
Electives	Cognate requirements

Fourth year

GERO 410, 420, and 493 (7)	GERO 491 (15)
Electives	Cognate requirements

This program is subject to revision and may be modified to meet student needs.

MEDICAL RECORD ADMINISTRATION

102 Health Center, 372-0242

All health care institutions keep records on each patient that contain medical information of the case histories of illnesses or injuries, reports on physical examinations, x-rays and laboratory tests, doctor's orders and notes, and nurses' notes. Registered Record Administrators supervise the acquisition of the complete medical records of each patient cared for by a medical team, plan record retention and retrieval systems and supervise their maintenance. They train members of the medical staff for specialized jobs, compile medical statistics required by state or national health agencies, and assist the medical staff in the evaluation of patient care or research studies.

The medical record administration program is usually pursued during the third and fourth year of study for the Bachelor of Science in Medical Record Administration. After formal approval of the program by the American Medical Record Association, graduates of the program will be eligible to take the national registration examination given by the American Medical Record Association. Passing this examination certifies a person as a Registered Record Administrator (RRA).

To be eligible for admission into the Medical Record Administration program students must have completed a two-year associate degree program in medical record technology such as the one offered at Firelands College or have verification of Accredited Record Technician (ART) certification.

Admission Criteria

The following criteria must be fulfilled for admission to the final two years of the medical record administration program:

1. Admission to BGSU.
2. Written application.
3. Verification of ART certification and/or associate degree.
4. Personal interview.
5. Two letters of reference (one personal and one professional).
6. Technical skills test (i.e., typing, transcriptions, etc.)
7. Approved plan of study.
8. Formal letter of admission from program director.

Suggested program

First and second year

Associate degree in medical record technology

Third year

General education requirements (8)	BUSE 455 (3)
PEG 100 (3)	MGMT 305 (4)
BA 303 and 325 (8)	CHEM 100 (4)
MIS 475 (4)	BIOL 313 (4)
	Professional electives (8)

Fourth year

MRA 401, 402, 403, 404, 410, and 489 (22)	ENG 488 (4)
MGMT 361 (4)	LEGS 425 (4)
	Professional elective (4)

Recommended professional electives

BUSE 321 (3)	PSYC 456 (4)
PHIL 342 (4)	SOC 301 or PSYC 311 (4-3)
PSYC 352 (3)	CS 200 (2)
PSYC 452 (4)	

This program is subject to revision and may be modified to meet student needs.

MEDICAL TECHNOLOGY

111 Life Sciences Building, 372-0109

Professional medical technologists are involved in the detection, diagnosis, and treatment of disease. They perform tests in microbiology, biochemistry, blood banking, hematology, cytology, serology, mycology, parasitology, and nuclear medical technology. Most medical technologists work in hospitals, public health agencies, research institutions, pharmaceutical houses, or other industrial laboratories. They may become supervisors or educators.

During this course of study, a student completes courses which provide the academic background for a fourth year clinical laboratory internship in a hospital medical technology program approved by the National Accrediting Agency for Clinical Laboratory Sciences. Students spend this internship year attending lectures and seminars and learning the operations of the various disciplines in a clinical laboratory. Upon completion of the program, students receive a Bachelor of Science in Medical Technology degree and will be eligible to take a medical technology certification examination such as the Board of Registry of the American Society of Clinical Pathologists or of the National Certification Agency for Medical Laboratory Personnel.

Admission into the program can take place at any time; however, students must apply for admission into the professional portion of the program at the end of their sophomore year. Admission will be given to those students who have met all announced criteria and for whom a position exists in a medical technology internship. Normally this position will be either in the Bowling Green State University internship which uses St. Vincent Hospital and Medical Center, Toledo Hospital, or at one of the other affiliated hospitals which include: Children's Hospital of Akron; University Hospitals of Cleveland; Mt. Sinai Hospital, Cleveland; St. Rita's Hospital, Lima; Mansfield General Hospital; Mercy Hospital, Toledo; or St. Charles Hospital, Toledo.

Students given alternate or conditional admission will be advised to design their course schedules during the junior year to insure that they can continue to pursue degrees in another field of study if a clinical internship is not available. A grade point average of 2.5 or better must be maintained after the beginning of the junior year. In addition to preparing individuals to enter medical technology, this major will prepare the student for entry into a graduate school and other laboratory professions.

As seniors, students register for a minimum of 48 hours of course work from the medical technology 400-level series. The internship may extend from 12 to 14 months.

Suggested program

First year

BIOL 201 and 202, or two introductory courses in BIOL approved by the program director (10)	ENG 112 or equivalent (4-8)
MATH 130 (MATH 131 recommended) (5-10)	CHEM 121, 122, and 123 (15); or CHEM 131, 132, and 133 (15)
PEG 100 (3)	General education requirements and electives (8-17)

Second year

CHEM 306 (5); or CHEM 343, 344, and 345 (15)	CHEM 308 and 309 (6)
MEDT 301 (2)	General education requirements and electives (13-22)
BIOL 313 and 405 (10)	

Third year

BIOL 332 or 411 (5)	CHEM 201 and 321 (10)
BIOL 426 and 439 (10)	General education requirements and electives (15-24)
PHYS 214 (5); or ET 347 and 348 (10)	

Fourth year

Clinical internship and seminars (48)

The following are recommended professional electives and desirable courses for general education group requirements:

PHYS 215	MGMT 305, 361
BIOL 350, 352, 406, 407, 408, 419, 421, 436, 443, 451, 490	Management practices
PSYC 201, 411, 452, 454	STAT elective
CHEM 321, 445, 446, 447, 448	PHIL elective
MIS 200; or CS 100, 101, 102	Technical writing
MIS 475	Ethics courses stressing medical problems

PARASITOLOGY AND MEDICAL ENTOMOLOGY

102 Health Center, 372-0242

Graduates trained in this program will be prepared for broad employment in the fields of health care, public health, parasitology, and disease control. A vital part of the education is the clinical experience that will be appropriate to the employment goals of the individual student. The graduate of the program will receive a Bachelor of Science in Parasitology and Medical Entomology degree.

Because of the variety of options available to the student in this field, individual students with their advisers must design programs appropriate to their needs. Students should consult program advisers for complete information regarding degree requirements and curricula.

Suggested program

First year

ENG 112 or equivalent (4-8)	MATH 124 and 125 (10); or
PEG 100 (3)	MATH 131 (5)
BIOL 104 or 201 (5)	General education
BIOL 101 or 203 (5)	requirements and electives
	(8-20)

Second year

BIOL 321, 322, 409, and 410 (18)	General education
CHEM 111, 112, and 213 (12); or CHEM 121, 122, and 123 (15); or CHEM 131, 132, and 133 (15)	requirements and electives
	Additional courses or possible secondary specialization tracks in areas such as ecology, microbiology, animal physiology, human or animal health

Third year

Courses in area of secondary specialization	BIOL 405 and 435 (10)
	Electives

Fourth year

Courses in area of secondary specialization	BIOL 406 (5)
Clinical practice (5)	Electives

SOCIAL WORK

320 Williams Hall, 372-2441

This program is designed to prepare students as general practitioners for the beginning level of professional social work practice. Built upon a liberal arts foundation, the program provides an opportunity for students to acquire a value system, gain a knowledge base, and develop a variety of intervention skills in working with people as they attempt to cope with their environments. Typically, social workers assist people facing such problems as: poverty, crime and delinquency, physical and mental handicaps and illnesses; strained family relationships; drug abuse; inadequate housing; lack of educational, recreational, and employment opportunities; and child abuse and neglect.

During the freshman and in the first quarter of the sophomore years, students take a preprofessional program that includes introductory social work courses in addition to courses in the broad, general education areas.

Admission into the social work program may be made as early as the end of the first quarter of the sophomore year, and requires a formal application and screening process. The bulk of the social work courses are offered in the junior and senior years.

This program stresses student participation in area social agencies through observation, volunteer work, and supervised field instruction. The graduates of the program receive a Bachelor of Science in Social Work degree. The program is accredited by the Council on Social Work Education.

Suggested program

First year

SOWK 110 (4)	PEG 100 (3)
ENG 112 or equivalent (4-8)	SOC 101 (4)
BIOL 101 (5)	SPCH 102 (4)
PSYC 201 (5)	General education
Electives	requirements

Second year

SOWK 220, 225, and 227 (12)
POLS 201 (4)
PHIL 103 and 210 (8)
CS 100 or 101 (4-5)
IPCO 306 (4)
Electives

Third year

SOWK 321, 322, 325, 326, 327, and 330 (24)
SOC 369 and 370 (8)
Electives

Fourth year

SOWK 332, 333, 423, 424, and 440 (20)

This program is subject to revision and may be modified to meet student needs.

SPEECH PATHOLOGY AND AUDIOLOGY

338B South Hall, 372-2223

The undergraduate major in speech pathology and audiology will prepare students in the basic speech and hearing sciences, theoretical and practical aspects of therapy, as well as affording the student the opportunity for a limited amount of observation, participation, and direct clinical work under supervision. The student will also become familiar with other para-professionals' services, goals, and the interrelationships with his or her own discipline. Since this is a preprofessional program, students who wish to receive the Certificate of Clinical Competence from the American Speech and Hearing Association are required to obtain a master's degree. The State of Ohio requires a master's degree, or its equivalent, for the licensing of a speech and hearing clinician.

Suggested program

First year

BIOL 104 (5) recommended	PHYS 350 or MATH (4-5)
ENG 112 or equivalent (4-8)	SOWK 110 (4)
SOC 101 (4)	CDIS 223 and 226 (8)
SPCH 102 (4)	Electives (8 of 12 hours to fill general education group V requirements)
PEG 100 (3)	

Second year

EDFI 302 and 342 (8)	PSYC 201 and 270 (9)
ENG 380 (5)	CDIS 324, 328, 330, 331, and 422 (20)
PSYC 311 or SOC 301 (3-4)	

Third year

ESE 431 (4)	PSYC 324 (4)
CDIS 325, 332, 333, and 424 (16)	Electives (20)

Fourth year

EDSE 451 (4)	CDIS 426 and 433 (8)
PSYC 405 (8)	(A 2.5 accumulative grade point average in the program core requirements is required to be eligible for enrollment in CDIS 426, clinical practicum.)
PSYC 309 (3)	
Electives (21)	

This program is subject to revision and may be modified to meet student needs.

Other programs

A program in speech and hearing therapy is offered through the College of Education. Other programs in speech are offered through the College of Arts and Sciences and its School of Speech Communication.

School of Nursing

Grace H. Chickadonz, *Director*, 101 Health Center, 372-0242

The School of Nursing offers the student an opportunity to become actively involved in the health field as a professional nurse with a Bachelor of Science in Nursing degree. The curriculum emphasizes a liberal education combined with the nursing theory and clinical practice needed to develop as an educated nurse. A graduate of the nursing program is capable of providing health services for individuals, families, and communities; eligible to take the licensing examination to become a registered nurse; and prepared for future graduate study and leadership in nursing.

The School of Nursing is accredited by the National League for Nursing and has full approval of the Ohio State Board of Nursing Education and Nurse Registration.

Fees for the nursing program are the same as for all other degree programs. Additional charges, however, are mandated for uniforms, professional liability insurance, and specific health tests, transportation to the classes of the Medical College of Ohio in Toledo and to the clinical placements is the responsibility of the student.

ADMISSION REQUIREMENTS

Admission to the preprofessional nursing program is through the Office of Admissions of the University. Successful completion of the preprofessional requirements is a prerequisite for admission to the professional nursing program. The number of students accepted into the nursing program is limited by the availability of clinical facilities and faculty. The criteria for admission to the professional program are competitive and based upon the following:

1. completion of BIOL 201; CHEM 111, 112, and 213; PSYC 201; with a minimum grade of "C" in each course;
2. accumulative grade point average in the preprofessional program.

Special emphasis is placed upon high achievement in the science courses.

Students are usually admitted to the professional nursing program only in the fall quarter. The sequential nature of the clinical nursing courses necessitates this policy. Students may carry a reduced course load by completing some of the general education courses prior to admission.

BACHELOR OF SCIENCE IN NURSING

A candidate for the degree of Bachelor of Science in Nursing must earn a minimum of 185 hours of credit (rather than 183 hours) either in residence, by advanced standing, or transfer credits, in addition to the requirements listed on page 7.

A minor is not required for graduation.

GENERAL EDUCATION GROUP REQUIREMENTS

GROUP I: COMMUNICATION

Each student is required to complete ENG 112 or demonstrate a proficiency in written expression equivalent to that attained by students who have completed the course.

GROUP II: FOREIGN LANGUAGE OR CULTURAL EXPERIENCE

No requirement

GROUP III: MATHEMATICS AND NATURAL SCIENCE

Each student is required to complete BIOL 201, CHEM 111, 112, and 213; and MATH 110 or demonstrate equivalent proficiency by a placement test.

GROUP IV: SOCIAL SCIENCES

Each student is required to complete PSYC 201, 270, and 405; SOC 101; two course from ECON, GEOG, HIST, or POLS.

GROUP V: ARTS AND HUMANITIES

Each student is required to complete one course in literature (American, English, or foreign) and four courses in one or more of the following areas: ART; literature, foreign languages; music; PHIL; POPC; SPEECH; or THEA. A list of courses approved for the group V requirements is available from the School of Nursing Office, 102 Health Center.

Additional required credit hours exclusive of major include: HOEC 207; EDFI 342; MIS 475; three hours of PEG 100; and electives.

The program requires a minimum of 85 hours. These include 11 nursing courses and 6 human biological science courses. A minimum grade of "C" is required in all nursing courses in the professional program.

Suggested program

First year (preprofessional program: 47 hours)

CHEM 111, 112, and 213 (12)	BIOL 201 (5)
MATH 110 (5)	PSYC 201 (5)
SOC 101 (4)	General education group III and group V requirements (9)
PEG 100 (3)	
ENG 112 or equivalent (4-8)	

Second year (professional program: 48 hours)

NURS 200, 201, 202, 250, 251, and 252 (26)	HOEC 207 (4)
EDFI 342 (4)	General education group III and group V requirements (14)

Third year (48 hours)

General education group III and group IV requirements, or electives (10)	PSYC 270 and 405 (8)
	NURS 300, 301, 302, 350, 351, and 352 (30)

Fourth year (42 hours)

NURS 400, 401, 402, 411, and 412 (31)	MIS 475 (4)
	Electives (7)

The above is a suggested program that may be modified according to individual needs and capabilities.

DEGREE PROGRAM FOR THE REGISTERED NURSE

The School of Nursing also offers an opportunity for graduates of associate degree and diploma programs to earn a baccalaureate degree with a major in nursing.

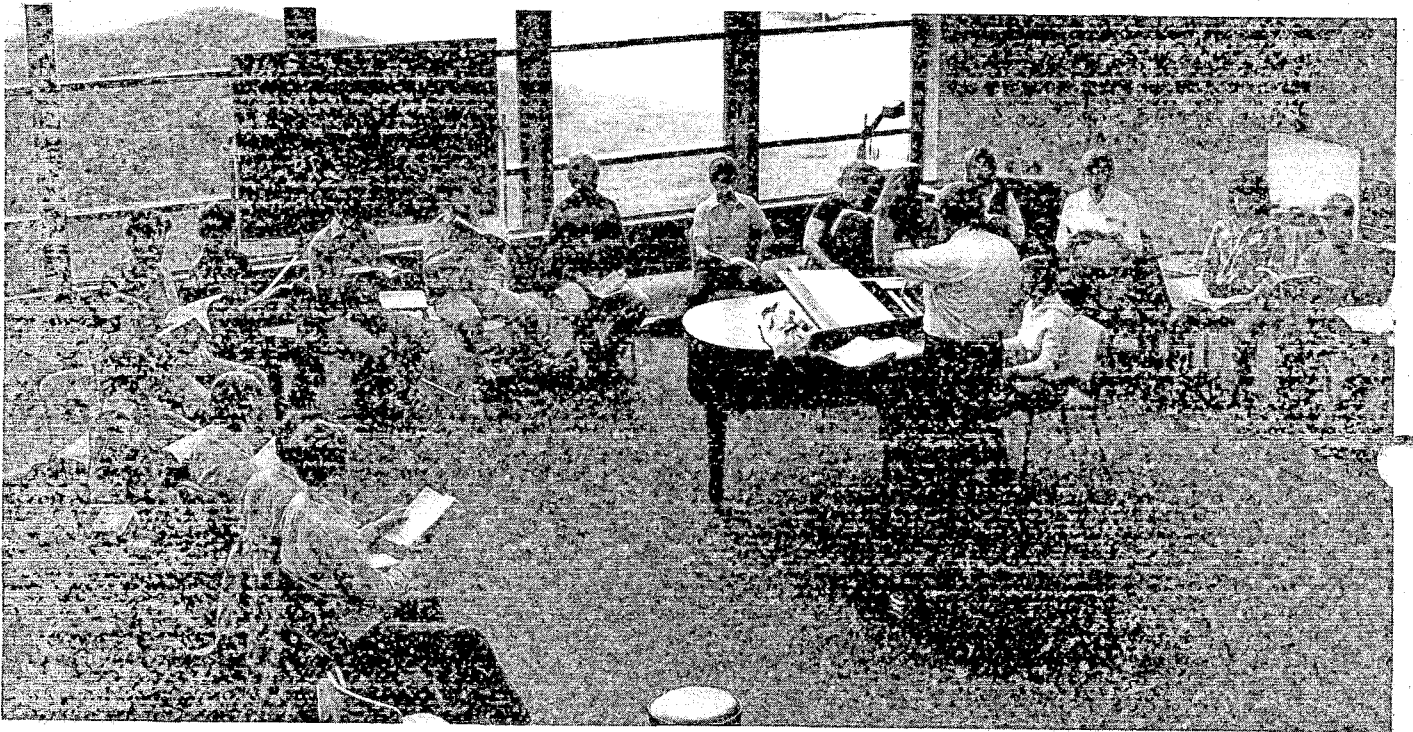
Prospective candidates must:

1. be a graduate of a state-approved nursing program;
2. be licensed to practice as a registered nurse in a state or U.S. territory;
3. have completed 45 credit hours with a minimum grade point average of 2.5, including courses in chemistry and biology.

Students from a diploma school of nursing take examinations to earn 45 hours of nursing credit and determine placement in the RN sequence (upper division nursing). Students from associate degree nursing programs also take examinations for placement purposes into the RN sequence.

Two nursing courses, NURS 310 and 311, and two physiology courses (taken through concurrent registration at the University of Toledo) are required at the junior level. At the senior level three clinical nursing courses and two nursing research courses are required.

A minimum of 185 hours are required in the program.



COLLEGE OF MUSICAL ARTS

Kenneth A. Wendrich, *Dean*, 1051 Musical Arts, 372-2181
Jon R. Piersol, *Associate Dean*, 1045 Musical Arts, 372-2181
372-2181

Department of Composition and History, JaFran Jones,
Chair, 1043 Musical Arts, 372-2181

Department of Music Education, Patrick Tallarico, *Chair*,
1041 Musical Arts, 372-2181

Department of Performance Studies, Rex Eikum, *Chair*,
1039 Musical Arts, 372-2181

OBJECTIVES

The primary objectives of the College of Musical Arts are to educate talented musicians for professional careers in teaching, performance, composition, and musical scholarship; and to serve the University community by contributing to the general education program. The college also strives through its Division of Public Mission to enhance the cultural climate of the entire campus and community and to serve as a cultural resource for northwest Ohio.

ACCREDITATION

Since 1947, the College of Musical Arts has been accredited and periodically re-examined by the National Association of Schools of Music.

ENTRANCE EXAMINATIONS

Each major or minor is required to audition in the student's major performance area and to take a written placement test. Depending on the outcome of the audition, a student is accepted, admitted on probation, or rejected. A nonmusic student wishing to enroll in applied music courses is also required to audition in his or her chosen performance area.

MUSIC ORGANIZATIONS

Membership in music organizations is open to all students. Selection is made on the basis of tryouts. These organizations include the A Capella Choir, Men's Chorus, Women's Chorus, and Collegiate Chorale; Concert, Marching, and Symphonic Bands; Symphony and Chamber Orchestra; and a number of other vocal and instrumental ensembles, including Collegium Musicum and Jazz Lab Band. See the *Course Descriptions* for a full listing of ensembles.

BACHELOR OF MUSIC

The College of Musical Arts offers curricula leading to the Bachelor of Music degree in the following areas:

- Music composition and theory
- Music education
 - Choral option—keyboard
 - Choral option—voice
 - Classroom option—keyboard
 - Classroom option—voice
 - Instrument option—keyboard
 - Instrument option—solo instrument
 - Musical theatre option
- Music history and literature
- Performance studies
 - Church music
 - Instrumental option
 - Brass
 - Harp
 - Percussion
 - String
 - Woodwind
 - Keyboard option
 - Harpsichord
 - Organ
 - Piano accompanying
 - Piano literature
 - Piano pedagogy
 - Musical theatre
 - Voice

This degree provides not only the most substantial undergraduate preparation for a professional career but also a background for graduate study. Programs outlined for each concentration stress breadth as well as depth to insure not only technical skills but a broad understanding of the social and cultural environment in which the art of music is practiced. See course descriptions for specific courses available in these programs.

General Requirements for the degree

A candidate for a degree in the College of Musical Arts must fulfill the general requirements listed on page 7 and meet the requirements for the degree listed in the following pages and in the latest lists of requirements available from each department. Certain requirements may be added, deleted, or modified, and responsibility resides with the student for obtaining the most recent specific requirements from the respective departments.

Recital attendance and participation

Students will be required to attend biweekly seminars according to area of performance study. Further, all freshman, sophomore, and junior music major students (and minors during terms in which they are engaged in performance study) will be required to attend 10 musical recitals or concerts on campus each term, exclusive of those in which the student is a participant. Attendance at the biweekly recitals at 2:30 p.m. on Thursday may be counted toward the minimum of 10 per term. To monitor this attendance, students must register for and successfully complete MUS 099 for each quarter required. Nine quarters are required for music majors.

Five-year program

A five-year performance curriculum leading to a Master of Music degree and certification for teaching in the public schools is available to gifted scholar-musicians. Students interested in this option should contact the director of graduate studies in music.

Double major

A student interested in a double major should consult with the chairs of the concerned departments for information pertaining to the requirements. Double majors must be approved by the chairs of the appropriate departments. Such programs ordinarily require more than 12 quarters to complete.

S/U grading

No required music courses may be taken on an S/U grading basis. Group and professional requirements outside of music, however, may be taken for S/U credit. Elective hours within and outside of music may also be taken on an S/U basis provided that the general grading policies of the University are maintained.

Aural skills

In order to acquire those hearing and sightsinging skills which are basic to any career in music, all music majors are required to pass level VI of aural skills prior to graduation. Since this course is competency based, students are encouraged to progress faster than the "normal" rate of one level per quarter. This may be accomplished by passing proficiency exam(s) in the various level(s). See music composition-history chair for information regarding receipt of credit for levels thus skipped.

Course prerequisites

For all music majors, completion of two 100-level MUCH modules with passing grades plus completion of MUCH 143 with a grade of "C" or better are prerequisite to enrollment in 200-level MUCH modules. Certain upper division courses have specific prerequisites from within the modular program. See course descriptions for details.

Elements of Music I

MUCH 110 (preview to music) does not fulfill degree requirements (or electives) for music majors and minors.

DEGREE PROGRAMS

MUSIC COMPOSITION AND THEORY

1043 Musical Arts Building, 372-2181

ADMITTANCE

Students already majoring in other areas of music who have developed a strong interest in music composition or theory and have demonstrated a strong aptitude in one of these areas may apply to the chair of the Music Composition-History Department for acceptance as a major in music composition or music theory. It is also possible to become a double major in music composition or music theory plus the original major. Normally this is done by the end of the sophomore year. The application will be reviewed by the faculty of the department for acceptance or rejection.

APPROVAL FOR CONTINUATION

The progress of each continuing major in music composition or music theory will be reviewed annually by the faculty of the Music Composition-History Department before the student is admitted to the next year's work. A *provisional* student would have one year to remove this restriction. Each candidate for senior status must submit at least one score or tape of an original composition or arrangement, or one original paper on some aspect of music theory.

ADVISING

Upon acceptance as a music composition or music theory major, it is recommended that each student meet with the chair of the Music Composition-History Department to develop a mutually agreeable program of courses to fulfill the remainder of both group and music requirements for his or her degree program.

COLLEGIUM MUSICUM

See description under music history and literature above. Participation in the New Music Ensemble by music composition and music theory majors is strongly encouraged. At the freshman and sophomore levels, the laboratory experience gained in this ensemble is intended to take the place of private composition lessons. Musical scores of student works for any solo or chamber music medium should be submitted to the director of the New Music Ensemble for regularly scheduled readings.

PIANO

Functional piano proficiency tests I and II are required.

APPROVAL FOR GRADUATION

Each candidate for the bachelor's degree in music composition is required to present a half-recital of his or her work—or its equivalent, such as music for a stage play or film of substantial length. Each candidate for the bachelor's degree in music theory is required to submit a paper which makes a contribution to the field of music theory through research and/or analysis.

DEGREE REQUIREMENTS

The degree Bachelor of Music in music composition and theory requires 200 total credits, distributed as follows:

1. 63 credit hours in general studies;
2. 74 credit hours in basic musicianship, including performance;
3. 60 credit hours in advanced courses in music theory, literature, and composition;
4. 3 credit hours in PEG 100.

For specific information, refer to the chair of the Department of Music Composition and History.

GENERAL EDUCATION MINIMUM GROUP REQUIREMENTS

Group I: Communication

Each student must complete at least one course in written communication such as ENG 112 or the equivalent. Total: 4 hours.

Group II: Foreign Language or Cultural Experience

Each student must complete at least three quarters of one language; either French or German is recommended. For

students without previous foreign language training, election of GERM 100 is recommended. If proficiency equivalent to 101-102-103 in either language can be established with the appropriate language department, then courses beyond this level may be taken. One quarter in a computer science programming language course may be substituted for one quarter of a foreign language beyond the first year of earned credits.

Each student must also complete 12 hours of a second language or substitute music courses not required in the major curriculum with the approval of the chair of music composition and history. Total: 24 hours.

Group III: Mathematics and Natural Sciences

Each student must complete at least one course in science or mathematics. PHYS 350 is recommended. Total: 4-5 hours.

Group IV: Social Sciences

Each student must complete at least one course selected from: anthropology, ECON, GEOG, HIST, POLS, PSYC, or SOC. Total: 4-5 hours.

Group V: Arts and Humanities

Each student must complete at least one course in fine arts or PHIL and one course in ENG literature. Total: 7-8 hours. In addition, each student must select a sufficient number of courses selected from any of the five groups in consultation with the chair to meet the minimum total group requirements of 63 hours.

Suggested Program

First year (51 hours)

MUCH 111, 132, 142, 143, CS 101 (5)
and 232 (16)

PEG 100 (3)

Applied music or vocal/
instrumental classes (3) Large or small ensembles
(new Music Ensemble recom-
mended) (3)

Group I requirements (4) MUED 150 and 151, or 152 (2)
MUCH 134 (or MUCH 334 Group III requirements (4)
third year) (4) Group V requirements (7)

Second year (51 hours)

MUCH 235, 241, 242, 243, Group IV requirements (4)
332, and 333 (18)

Applied music or vocal/
instrumental classes (3) Ensembles (New Music En-
semble recommended) (3)

Foreign language (12) MUED 250 and 251 (2)
Group electives (9)

Third year (49 hours)

MUCH 231, 334, and H341 Ensembles (2)
(10)

MUCH 308 and 309 (4) Group electives (10)

MUSP 305, 306, and 307 (6) MUCH electives (2)

MUCH 315 and 320 (6)

MUCH 316 (9)

Fourth year (49 hours)

MUCH 316 (9) MUCH 410 (9)

MUCH 424, 425, and 426 (9); Music history and literature
or MUCH 427, 428, and electives (8)
429 (9)

Group electives (8) MUCH 403, 404, and 405 (6)

The above is a sample program which may be modified with the approval of the chair of music composition-history according to the student's individual needs and capabilities.

MUSIC EDUCATION

1041 Musical Arts Building, 372-2181

The music education curriculum is designed to prepare students to become elementary and secondary school music teachers. The department believes that this can be accomplished by providing for the student:

1. a program of general studies in the sciences and humanities;
2. advanced study in music performance and comprehensive musicianship; and
3. a program of professional training including field experiences, methods courses, and laboratory training.

DEGREE PROGRAMS IN MUSIC EDUCATION

All Bachelor of Music degree programs in music education lead to provisional special certification for teaching elementary and secondary school music. The total number of hours in all programs is 202. This means that a student who wishes to graduate in four years must take approximately 50 hours each year. Music education majors usually take between 16 and 18 credit hours per quarter. The 202 hours are distributed over the following areas* of general and professional study:

1. 63 hours of credit in general studies;
2. 21 hours of credit in professional education courses;
3. 93 hours of credit in music core courses including music theory, music history, performance, conducting, ensembles, methods courses, and student teaching;
4. 22 hours of credit in one music education option;
5. 3 hours of credit in PEG 100.

While all students pursue the same number of hours in the above areas, the kinds of courses required vary depending upon the degree option the student has selected. At the present time four degree options are offered in music education: a choral major, an instrumental major, a classroom music major, and a musical theatre major. The choral major is intended for those who wish to teach junior and senior high school choral ensembles; the instrumental major for those who wish to work with bands and/or orchestras from the elementary grades through high school; the classroom major for those who are interested in teaching elementary and junior high school general music; and the musical theatre major for those who are interested in teaching choral music at the secondary level and in producing musical shows. For complete degree requirements for the musical theatre option, refer to "music education option requirements."

SELECTING A DEGREE OPTION

All freshman music education majors are enrolled in a general course of study for the first academic year. Students are required to select a degree option during that year.

Approval for an option is initially determined on the basis of the student's academic standing and performance achievement.

1. Academic standing is determined on the basis of the student's (a) cumulative grade point hours and quality points, and (b) standing in the basic music courses.
2. Performance proficiency is measured through applied juries at the end of spring quarter. Third quarter performance juries are used (a) to determine a student's performance proficiency for choosing a speciality area, and (b) to determine whether performance progress has been satisfactory. Only students whose performance status is satisfactory will be granted an area of speciality. Unsatisfactory performance will result in either the student being placed on probation or being dropped from the program. Probation is granted for only one quarter during which time satisfactory achievement must be demonstrated or dismissal from the program will ensue.
3. To remain in a degree option, students must exhibit teaching competency as assessed by the music education faculty.

Students who decide to change from one option to another must consult with the department chair prior to the change. In addition, they may be required to meet additional professional and performance requirements. Any student changing an option must complete at least 15 credit hours in one performance area.

GENERAL EDUCATION GROUP REQUIREMENTS

To ensure a general education background in addition to the teaching major, a student is required to complete 63 hours of credit from the five areas of knowledge indicated below as group requirements.

Group I: Communication

Each student must complete ENG 112 and SPCH 102. A student is considered to have demonstrated acceptable performance in English skills if he or she has received a

*Subject to change for freshman class of 1980 pending approval of Teacher Education Redesign component.

grade of "C" or better in ENG 112. A student who receives a "D" in ENG 112 must repeat the course until a grade of "C" is earned. Furthermore, the student is required to present evidence of freedom from speech defects as certified by the Department of Speech. Minimum total: 8 hours.

Group II: Foreign Language or Cultural Experience

(See requirements listed under Group V.)

Group III: Mathematics and Natural Science

Each student must complete at least 8 hours of credit in course work selected from BIOL, CHEM, PHYS, GEOL, MATH, or MIS. MATH 241 and 242 are applicable only for an elementary education major.

Group IV: Social Sciences

Each student must complete at least 8 hours of credit in the social sciences selected from ECON, GEOG, HIST, POLS, PSYC (except PSYC 201), anthropology, or SOC.

Group V: Arts and Humanities

Each student is required to complete one course in English literature (4 hours) and 9 hours of credit in one or more of the following areas: ART, speech (including RTVF and THEA), literature, modern dance, PHIL, or foreign language. Group V requirements may not include music courses.

Group V Requirements for the Classroom Music Major

Students pursuing the classroom music option are required to take 12 hours in related art disciplines. These include: ART 101; six hours from ART 145, 146, and 147; THEA 347 or 447; and three hours of an applied art course or a 400-level art history course. Twenty-three hours may then be elected from one or more of the groups, or from those disciplines listed below. Required courses in the music education major may not be used. At least eight of the 23 hours must be nonmusic courses.

Group V Requirements for the Music Theatre Major

Students pursuing the music theater option must complete the following courses in theatre and related fields: THEA 202, 241, 341, 352, and 353 (19); and THEA 243, 343, or 349 (3-4). Students must then elect 10-11 hours from one or more of the groups or from those disciplines listed below. Required courses in the music education major must not be used.

Musical theater majors must also complete five hours of recreation and dance from among ballet, ballroom dance, square dance, folk dance, jazz dance, modern dance, and tap dance (3); and RED 226 (2).

TOTAL GROUP REQUIREMENTS

Each student in music education must meet the total minimum requirements (37 hours) for groups I, II, III, IV, V. The remaining 26 hours may be elected from one or more of the groups, or from any of the following disciplines: JOUR, MKT, MGMT, BUSE, international business, LEGS, FIN, INS, L&EM, HOEC, POPC, technology, health, physical education, and recreation, music, and education. Required courses in the music education major may not be used. At least eight of the 26 hours must be nonmusic courses.

PROFESSIONAL EDUCATION REQUIREMENTS

To ensure adequate professional preparation for a career in teaching, the following courses are required: EDFI 302, 402, and 408; and EDAS 409. The prerequisite for EDFI 302 is PSYC 201.

MUSIC CORE REQUIREMENTS

All music education majors are required to complete the following core courses. Minimum total: 92-93 hours.

Music history and theory

Music modules MUCH 111, 132, 231, 232, 332, 333, 134 or 334, and 233 or 320 or 125; aural skills I-VI (MUCH 142, 143, 241, 242, and 243. Minimum total: 41-42 hours.

Conducting

MUSP 305-306-307 required in the junior year before student teaching. Minimum total: 6 hours.

Performance

15 hours minimum in one performance medium.

Ensembles

7 hours of large ensembles; 2 hours of small ensembles.
Minimum total: 9 hours.

Music methods

MUED 255 and 355. Minimum total: 7 hours.

Student teaching

MUED 331, 15 hours minimum total. Eligibility requirements for student teaching are specified under "student teaching" in this section of the *General Bulletin*.

MUSIC EDUCATION OPTIONS

In addition to the core requirements (92-93 hours), each major in music education must complete the requirements of one of the following options.

Choral option (keyboard emphasis)

MUED 359 and 456; MUSP 311; 6 hours of instrument classes (see "additional requirements — instrument classes."); 5 hours of class or studio voice; 2 hours of class piano and functional proficiencies I, II, and MUSP 264 (2). Total minimum: 22 hours.

Choral option (vocal emphasis)

MUED 359 and 456; MUSP 311; 6 hours of instrument classes (see "additional requirements — instrument classes."); 6 hours of class piano and functional proficiencies I, II, and III; 2 hours of studio piano. Total minimum: 22 hours.

Classroom option (keyboard emphasis)

MUED 451 and 455; 6 hours of instrument classes; 5 hours of class or studio voice; 2 hours of class piano and functional proficiencies I and MUSP 264 (2). Total minimum: 22 hours.

Classroom option (vocal emphasis)

MUED 451 and 455; 6 hours of instrument classes; 2 hours of studio piano; 6 hours of class piano and functional proficiencies I, III, and IV. Total minimum: 22 hours.

Instrumental option (keyboard emphasis)

MUED 457; 10 hours of instrument classes; 2 hours of class or studio voice; 2 hours of class piano and functional proficiencies I, II, and MUSP 264(2); 3 hours of music electives. Total minimum: 22 hours.

Instrumental option (solo instrument emphasis in woodwind, brass, string, or percussion)

MUED 457; 10 hours of instrument classes; 2 hours of class or studio voice; 6 hours of class piano and functional proficiencies I, II, and III. Total minimum: 22 hours.

Musical theatre option (vocal emphasis only)

MUED 359 and 456; MUSP 311; 6 hours of instrument classes (see "additional requirements — Instrument classes."); 6 hours of class piano and functional proficiencies I, II, and III; 2 hours of studio piano. Total minimum: 22 hours.

Performance requirements

Each student must participate in one University musical (theatre program and College of Musical Arts) and three theatrical productions well distributed over the following: opera, opera workshop, educational theatre, community theatre, professional theatre, and dance theatre. Each production must be approved by the chair of music education.

Admittance to the option

At the end of the student's first year of study, he or she must audition for probationary acceptance into the musical theatre option before a committee of representatives from the University's dance program, theatre program, and College of Musical Arts.

At the end of the student's second year of study, he or she must audition for formal acceptance into the musical theatre option before a committee of representatives from the University's dance program, theatre program, and College of Musical Arts.

PERFORMANCE REQUIREMENTS

In addition to specific course requirements which total 202 hours, music education majors must meet the following performance-oriented requirements.

Performance jury examinations

Each student in music education must have a major

performance emphasis and must pass an examination in that area at jury examination times. Jury examinations are scheduled at selected times and are posted for each academic year. Failure to pass a performance jury examination results in probationary status for one quarter at the end of which significant improvement must be demonstrated or performance instruction will be terminated and the student will be dismissed from the program. If a student wishes to change his or her area of performance emphasis, it must be with the approval of the chair of music education and the appropriate performance faculties.

Recital

A half recital (or its equivalent) is required of all music education majors. This is usually given in the senior year before or after the quarter of student teaching; it may not be given while student teaching. Permission to perform a recital is given by the appropriate performance faculty and is based upon the student's performance at a recital jury examination. Students desiring to meet this requirement through equivalent means must receive approval from the chair of music education and the appropriate performance faculty. Students are encouraged to give a full recital; however, a full recital may only be given with the consent of the performance area faculty.

FUNCTIONAL KEYBOARD REQUIREMENTS

Music education majors are required to pass three functional proficiency examinations. Instrumental majors must pass proficiencies I, II, and III; choral majors proficiencies I, II, and III; and classroom majors proficiencies I, III, and IV. Piano requirements for all degree programs cannot be met simply by taking piano for a specified number of credit hours. The following skills are required for each proficiency examination:

Proficiency I: scales, basic chord progressions, chording melodies, and sight reading

Proficiency II: harmonization and score reading

Proficiency III: accompanying

Proficiency IV: harmonization, improvisation, and transposition

Proficiency I is a freshman-level requirement; proficiencies II and IV are sophomore requirements, and proficiency III a junior requirement.

All entering freshmen are auditioned on piano and placed according to their keyboard skills. Students with no keyboard background are placed in the introductory class piano sequence of MUED 150, 151, and 152. Students with some keyboard experience are placed in either MUED 151 or 152 depending upon their level of proficiency. Keyboard emphasis students are placed in MUED 154 in lieu of taking MUED 150-152 and take MUSP 264 in lieu of Proficiency III.

All freshmen are expected to pass functional proficiency I by the end of the third quarter. Sophomore- and junior-level piano course requirements are unique to each option in music education. They are specified in the *Music Education Handbook* and are designed to prepare students for the second, third, and fourth functional proficiency examinations.

Any of these proficiency examinations may be passed ahead of schedule. Some must be completed prior to student teaching. Students who have not passed functional proficiency I and II (or IV) will not be allowed to student teach. Because of the time required to place students in student teaching assignments, there must be at least one full quarter between the time the final proficiency is passed and the quarter of student teaching. Summer session is considered equivalent to one quarter. Proficiency I examinations are scheduled at the mid-term and end of each quarter; proficiencies II, III, and IV are scheduled at the end of each quarter.

All piano classes must be passed with a grade of "C" or better. These are indicated in the course descriptions. Additional information on all functional piano requirements is available from the chair of music education. Students are responsible for knowing and meeting all proficiency requirements.

ADDITIONAL REQUIREMENTS

Academic minor

Ordinarily students pursuing a degree in music education do not carry an academic minor; however, a minor can be pursued provided the student is willing to take additional credits beyond the minimum of 202 required for graduation.

Added course requirements

On the basis of the placement examination students may be required to take additional courses besides those specified in the music core and music education option requirements. Students will be notified of such requirements before the beginning of their freshman year.

Field experiences

Field-based experiences are an essential part of professional teacher preparation. In compliance with state certification requirements, students will be required to participate in such experiences as a part of certain music education courses.

Instrument classes

Music education majors pursuing the instrumental option are required to elect 10 instrument classes. Music education majors pursuing the choral option are required to elect six instrument classes. Classroom majors may elect any combination of wind and string classes. All students are required to consult with a music education adviser during the freshman year to determine the appropriate distribution of instrument classes.

Conducting requirements

All music education majors must pass third quarter conducting with at least a grade of "C". Those students receiving a grade of "D" or less will be required to repeat MUSP 307 (conducting) and to achieve better than average work before being allowed to student teach.

Methods requirements

Music education majors must pass all required methods courses (MUED 255, 355, 451, 455, 456, 457) with at least a grade of "C". Those students receiving a grade of "D" or less will be required to repeat the course(s) in question and to achieve better than average work before being allowed to student teach.

Large ensembles

Music education majors are encouraged to participate in large ensembles each quarter except the quarter they student teach. Instrumental majors must acquire seven hours of large ensemble credit exclusive of marching band. Marching band credit may apply toward elective hours. Choral majors must acquire seven hours of large ensemble credit exclusive of men's and women's chorus. Credit for men's and women's chorus may apply toward elective hours.

Student teaching

The requirements for student teaching in music are established by the State of Ohio, the University, and the Department of Music Education. To be eligible for an assignment in student teaching the student must meet the general requirements of the College of Education and those prerequisites established by the Department of Music Education.

Departmental prerequisites

Music requirements for student teaching include the successful completion (with a grade of "C" or better) of MUED 255 and 355; MUSP 307; any other required methods course(s); and the required functional proficiency examinations. In addition, instrumental majors should attempt to complete the 10-hour instrument class component prior to student teaching.

Registration

Each student teacher must register in two places: (a) with the University Office of Student Teaching in the College of Education; and (b) with the coordinator of student teaching in the College of Musical Arts.

Speech and hearing test

Prospective teachers must also take speech and hearing tests so that they may avail themselves of appropriate corrective services if necessary.

Transportation and housing

Students must provide their own transportation to assigned schools. Students without transportation are expected to live in the assigned community. Requests for stations close to the campus because of apartment leases, etc., may not be honored.

Station assignment

Students will be assigned to teaching stations and supervisors at the discretion of the coordinator of student teaching. Requested stations and/or supervisors cannot be guaranteed.

Preteaching interview

Any school system has the right to interview a prospective student teacher. If the student is not accepted, the coordinator reserves the right to reassign him or her. If necessary, the coordinator may request that the student seek an interview with school authorities.

Radius

The radius for student teacher placement is not more than 75 miles from campus.

Withdrawal from student teaching

A student teacher may not withdraw from an assignment once he or she has been accepted by a school system except in cases of emergency (e.g., ill health, a death in the family).

Changing quarter of teaching

Students requesting to change their assigned quarter of student teaching may have to wait one or more quarters if there is not an opening in the quarter to which they wish to change.

Extended student teaching

If during the quarter of student teaching a student does not successfully meet the performance objectives and competencies outlined by the Office of Student Teaching and the Department of Music Education, the student may be required to do extended student teaching. A student doing unusually ineffective teaching in any of the competency areas may be required to pursue further academic study in that area(s) before being allowed to do extended student teaching.

Time requirement

All students must complete the full-quarter time requirement for student teaching.

Written requirements

Student teachers must complete all written requirements connected with their final evaluations or they will be given an incomplete for the quarter.

On-campus activities

For a student to be effective, total commitment to teaching is necessary. Students may not take an academic course, present recitals, perform in ensembles, or take private lessons during student teaching except with the consent of the chair of music education.

Graduate students

Graduate students seeking teaching certification must meet all undergraduate student teaching requirements.

Summer student teaching

Student teaching during summer session terms is not permitted.

MUSIC HISTORY AND LITERATURE

1043 Musical Arts Building, 372-2181

ADMITTANCE

Students already majoring in other areas of music who have developed a strong interest in music history and literature and have demonstrated a high standard of academic achievement may apply to the chair of the Music Composition-History Department for acceptance as a major in music history and literature. Normally this is done at the end of the freshman or sophomore year. The application will be reviewed by the faculty of the department for acceptance or rejection.

APPROVAL FOR CONTINUATION

The progress of each continuing major in music history and literature will be reviewed annually by the faculty of the Music Composition-History Department before the student is admitted to the next year's work.

ADVISING

It is recommended that upon acceptance as a music history-literature major, each student meet with the chair of the Music Composition-History Department to develop a mutually agreeable program of courses to fulfill the remainder of both group and music requirements for his or her degree program.

COLLEGIUM MUSICUM

The department maintains a collegium musicum as a training ground for performance practice and showcase for music not usually performed by other traditional music ensembles. Ensemble credit is available in: Madrigal Singers, Renaissance Ensemble, Baroque Ensemble, Baroque Singers, New Music Ensemble, and Gamelan. Participation in these ensembles by music history-literature majors beyond the required six hours is strongly encouraged.

PIANO

Functional piano proficiency tests I and II are required.

APPROVAL FOR GRADUATION

Music history and literature majors are expected to meet standards acceptable to the music composition-history faculty in performance and in scholarship as evidenced in MUCH 406.

DEGREE REQUIREMENTS

The degree Bachelor of Music in music history and literature requires 188 total credits, distributed as follows:

1. 70 credit hours in general studies;
2. 92 credit hours in basic musicianship, including theory and performance;
3. 23 credit hours in advanced courses in music history and literature;
4. 3 credit hours in PEG 100.

For specifics refer to the chair of the Department of Music Composition-History.

GENERAL EDUCATION GROUP REQUIREMENTS

Group I: Communication

Each student must complete at least one course in written communication such as ENG 112 or the equivalent and one additional course in ENG composition or ENG literature. Total: 8 hours.

Group II: Foreign Language or Cultural Experience

Each student must complete at least three quarters of one language (either French or German is recommended) and at least two quarters of another language. For students without previous foreign language training, election of GERM 100 is recommended. If proficiency equivalent to 101-102-103 in the first language or 101-102 in the second language can be established with the appropriate language department, then courses beyond this level may be taken. Total: 20 hours.

Group III: Mathematics and Natural Science

Each student must complete at least one course in science or mathematics. Computer science or acoustics is recommended. Total: 4 hours.

Group IV: Social Sciences

Each student must complete at least one course selected from: anthropology, ECON, GEOG, HIST, POLS, PSYC, and SOC. Total: 4 hours.

Group V: Arts and Humanities

Each student must complete one course in PHIL, at least one course in fine arts, and one course in ENG literature in addition to that required in Group I. Total: 11-12 hours. Music courses not specifically required in the major curriculum may satisfy Group II and V requirements with the approval of the chair of music composition and history. In addition, each student must elect a sufficient number of courses selected from any of the five groups in consultation with the chair to meet the minimum total group requirements of 70 hours.

Suggested Program

First year (48 hours)

MUCH 111, 132, 142, 143,
and 232 (16)
MUED 150, 151, and 152 (3)
MUCH 134 (or MUCH 334
third year) (4)
Applied music (3)

Large ensemble (3)
Group I requirements (4)
Group III requirements (4)
Group V requirements (8)
PEG 100 (3)

Second year (48 hours)

MUCH 235, 241, 242, 243,
332, and 333 (18)
MUED 250 and 251 (2)
Large ensemble (3)

Group IV requirements (4)
Group II requirements (12)
Group electives (9)

Third year (44 hours)

MUCH 315 or 320 (3)
MUCH 231, 334, and H341
(10)
Applied music (3)
MUSP 305 and 306 (4)

Group II requirements (8)
Collegium Musicum (3)
Music history and literature
electives (7)
Group electives (6)

Fourth year (48 hours)

MUCH 308, 309, and 407 (7)
MUCH 406 (8)
Music history and literature
electives (6)

Group V requirements (7)
Collegium Musicum (3)
Group electives (8)
Music theory electives (9)

The above is a sample program to be modified according to individual needs and capabilities with the approval of the chair of music history-composition.

PERFORMANCE STUDIES

1039 Musical Arts Building, 372-2181

A student is accepted for the Bachelor of Music in performance studies by audition before the area faculty. The acceptance audition may be held at the time of the initial audition and placement examinations or during the course of degree study. It is highly recommended that the acceptance audition take place during the freshman year. Acceptance later than the freshman year may necessitate studies beyond the fourth year to meet repertoire and performance area standards.

Upon acceptance the student, in counsel with his or her adviser, develops a course of study based on degree requirements and the student's individual needs and desires.

All performance studies majors are expected to participate in appropriate ensemble experiences each quarter of registration: i.e. strings in orchestra; winds, brass, and percussion in band or orchestra; voice in choral ensembles or opera workshop; piano in appropriate accompanying assignments.

JURIES

Each student in performance studies must have an area of emphasis (instrumental, keyboard, or vocal option) and must pass an examination in that option at jury times. Juries occur at selected times and are posted for each academic year. Failure to meet expected standards in a jury results in probationary status for one quarter at the end of which significant improvement must be demonstrated or the student will be dismissed from the performance studies degree program. If a student wishes to change his or her area of emphasis or degree program, it must be with the approval of the chair of performance studies and the appropriate faculty.

RECITAL

A full recital (or its equivalent) is required of all performance studies majors. This is usually given in the senior year. Permission to perform a recital is given by the appropriate performance studies faculty and is based upon the student's performance at a recital jury.

A student must be registered for applied study in the quarter when the recital is presented.

GENERAL EDUCATION GROUP REQUIREMENTS

Group I: Communication

Each student must complete ENG 112 or the equivalent. Total: 4 hours.

Group II: Foreign Language or Cultural Experience

For voice majors, the freshman minimum sequence is FREN 101, 102, 103; GERM 101, 102, 103. See also Group V.

Group III: Mathematics and Natural Science

Each student must complete at least one course in science or MATH. PHYS 350 is recommended. Total: 4-5 hours.

Group IV: Social Sciences

Each student must complete at least one course selected from: ECON, GEOG, POLS, HIST, SOC, PSYC, or anthropology. Total: 4-5 hours.

Group V: Arts and Humanities

Each student must complete the music history sequence (MUCH 125 and 130), one course in ENG literature, and at least one course in fine arts (excluding music), speech/theatre, PHIL, or foreign language. Total: 16 hours.

Total requirements

In addition, each student must complete 3 hours of PEG 100 and elect a sufficient number of courses from the above groups (or courses approved by the chair of performance studies) to total 55 hours.

A total of 10 hours in music courses not required for the degree may apply to Group II or V.

More than the 183 total hours minimum may be required for specific performance studies degree options.

PERFORMANCE STUDIES OPTIONS**Church music****Instrumental**

Brass
Harp
Percussion
String
Woodwind

Keyboard

Harpsichord
Organ

Piano Accompanying

Piano Literature

Piano Pedagogy

Musical theatre**Voice****CHURCH MUSIC OPTION**

Before the end of the freshman year each candidate for the degree of Bachelor of Music with a major in church music should meet with his or her adviser to develop a course of study which will satisfy the group and music requirements in this program. Each student is expected to participate in the music program of a church of his or her choice and to give a senior recital.

GENERAL EDUCATION GROUP REQUIREMENTS**Group I: Communication**

Each student must complete ENG 112 or the equivalent. Total: 4 hours.

Group II: Foreign Language or Cultural Experience

Each student must complete FREN 101, 102, and 103; and GERM 101, 102, and 103, unless proficiency can be demonstrated. Total: 24 hours.

Group III: Mathematics and Natural Science

Each student must complete at least one course in science or MATH. PHYS 350 is recommended. Total: 4 hours.

Group IV: Social Sciences

Each student must complete at least one course selected from: ECON, GEOG, POLS, HIST, and SOC. HIST 151 is recommended. Total: 4 hours.

Group V: Arts and Humanities

Each student must complete one course in ENG literature (ENG 306 is recommended), MUCH 125, and 130. Total: 12 hours.

Total group requirements

In addition, each student must complete a sufficient number of courses from any of the four groups to meet the total group requirement of 67 hours.

Suggested program (186 hours)**First year (46 hours)**

MUCH 111, 132, 142, 143,
and 232 (16)

ENG literature (4)

Group IV requirement (HIST
151 recommended) (4)

Ensemble (choral) (3)

Second year (50 hours)

MUCH 131, 231, 241, 242,
and 243 (14)

GERM 101, 102, and
103 (12)

Group III requirement (PHYS
350 recommended) (4)

Third year (49 hours)

MUCH 125, 332, and
333 (12)

MUSP 215 or 311 (2)

MUSP 463 or 472 (6)

MUSP 216 or 312 (2)

Ensemble (choral) (3)

Fourth year (41 hours)

MUCH 301, 403, 404, 405,
and 407 (12)

MUSP 415 and 416 (6)

MUSP 396, 397, and 398 (6)

MUSP 263 or 272 (6 hours for
major area, 3 hours for minor
area) (9)

ENG 112 (4)

PEG 100 (3)

Piano or proficiency (3)

Ensemble (choral) (3)

MUSP 263 or 272 (6 hours
for major area, 3
for minor area) (9)

Electives (8)

FREN 101, 102, and
103 (12)

MUSP 217 or 313 (2)

MUSP 305, 306, and
307 (6)

Electives (4)

MUSP 463 or 472 (6)

MUED 456 (3)

Ensemble (choral) (3)

Recital (2)

Electives (3)

INSTRUMENTAL OPTION**Suggested program (187 hours)****First year (48 hours)**

Instrument (12)

MUCH 111, 132, 134,
142, and 143 (16)

Piano (proficiency) (3)

Second year (48 hours)

Instrument (12)

MUCH 231, 232, 241,
242, and 243 (14)

Electives (music and
nonmusic) (4)

Third year (46 hours)

Instrument (12)

MUSP 305 and 306 (4)

Large ensemble (6)

Small ensemble (3)

Fourth year (45 hours)

Instrument (12)

Small ensemble (3)

MUCH 315 or 320 (3)

Electives (music and
nonmusic) (10)

Large ensemble (6)

ENG 112 (4)

ENG literature (4)

PEG 100 (3)

Group V requirements (4)

Group III requirements (4)

Large ensemble (6)

Group IV requirements (4)

MUCH 125, 332, and 333
(12)

Electives (music and
nonmusic) (9)

Recital (2)

Pedagogy (3)

Large ensemble (6)

MUCH 318 and 408 (6)

KEYBOARD OPTION (ORGAN)**Suggested program (184 hours)****First year (46 hours)**

MUCH 111, 131, 132, 142,
and 143 (16)

ENG 112 (4)

PEG 100 (3)

MUSP 263 (12)

ENG literature (4)

Ensemble (3)

Group III requirements (4)

Second year (48 hours)

MUCH 125, 231, 232, 241, 242,
and 243 (18)

Group V requirements (4)

Ensemble (3)

MUSP 263 (12)

Group IV requirements (4)

Electives (music and
nonmusic) (7)

Third year (44 hours)

MUCH 332, 333,
and 407 (11)

MUSP 215, 216, 217, 305,
and 306 (10)

MUSP 463 (12)

Ensemble (3)

Electives (music and
nonmusic) (8)

Fourth year (46 hours)
 MUSP 396, 397, 398, 415,
 and 459 (12)
 Recital (2)
 Electives (music and
 nonmusic) (8)

MUSP 463 (12)
 Ensemble (3)
 MUCH 315, 403, 404, and
 405 (9)

KEYBOARD OPTION (PIANO LITERATURE)

Suggested program (184 hours)

First year (48 hours)
 MUCH 111, 132, 142,
 143, and 232 (16)
 ENG 112 (4)
 MUSP 261 (12)
 Group III requirements (4)

Second year (49 hours)
 MUCH 125, 231, 241,
 242, and 243 (14)
 Group V requirements (4)
 MUSP 264 (2)
 Electives (4)

Third Year (43 hours)
 MUCH 332 and 333
 (8)
 MUCH 403 or 404 (2)
 MUSP 361, 362, 363, 366,
 467, 468, and 469 (12)

Fourth year (44 hours)
 MUCH 315, 407, 408, and
 410 (12)
 MUCH 300- or 400-level
 literature (3)
 MUSP 300 accompanying
 practicum (1)

MUCH 134 or 334 (4)
 ENG literature (4)
 PEG 100 (3)
 MUSP 160 (1)

MUSP 261 (12)
 Group IV requirements (4)
 MUSP 210, 211, and
 212 (9)

MUSP 461 (12)
 MUSP 300 (mixed chamber
 ensemble) (2)
 Electives (7)

Recital (2)
 MUSP 300 (mixed chamber
 ensemble) (1)
 MUSP 466 (1)
 MUSP 461 (12)
 Electives (12)

VOICE OPTION

Suggested program (187 hours)

First year (49 hours)
 MUSP 272 (10)
 MUCH 111, 132, 134,
 142, and 143 (16)
 ENG literature (4)
 Ensemble (3)

Second year (51 hours)
 MUSP 272 (12)
 Piano or proficiency (3)
 GERM 101, 102, and
 103 (12)
 Group IV requirements (4)

Third year (47 hours)
 MUSP 372 (12)
 FREN 101, 102, and
 103 (12)
 MUCH 232, 332, and 333
 (12)

Fourth year (40 hours)
 MUSP 472 (12)
 MUCH 301, 407, or 408
 (3)
 MUSP 378 (6)
 Recital (2)

Group III requirements (4)
 Piano or proficiency (3)
 ENG 112 (4)
 MUSP 214 (2)
 PEG 100 (3)

MUCH 125, 231, 241, 242,
 and 243 (14)
 Ensemble (3)
 Electives (music and
 nonmusic) (3)

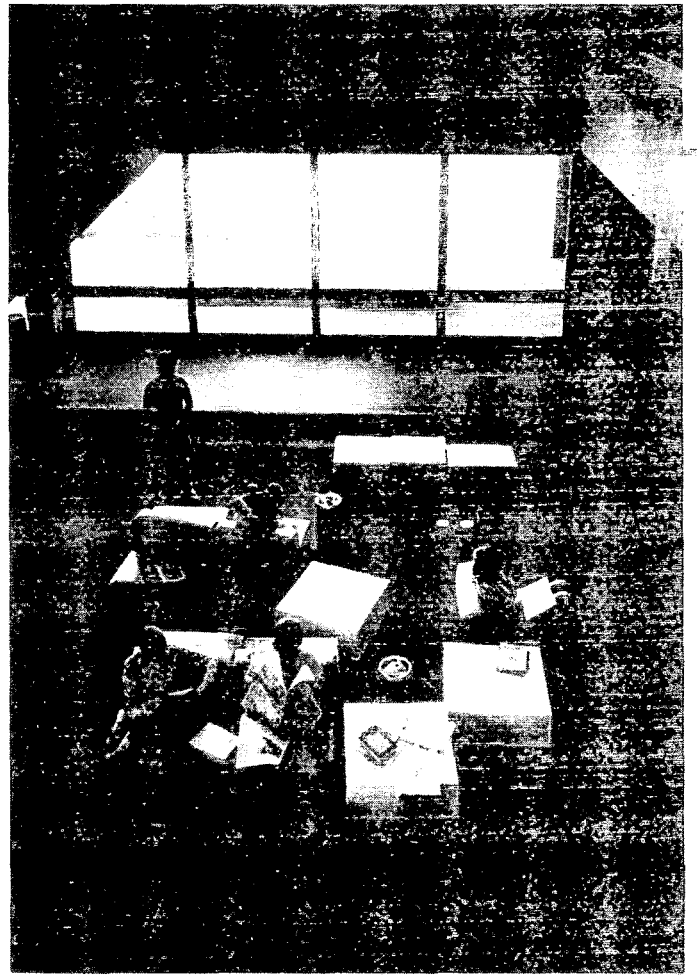
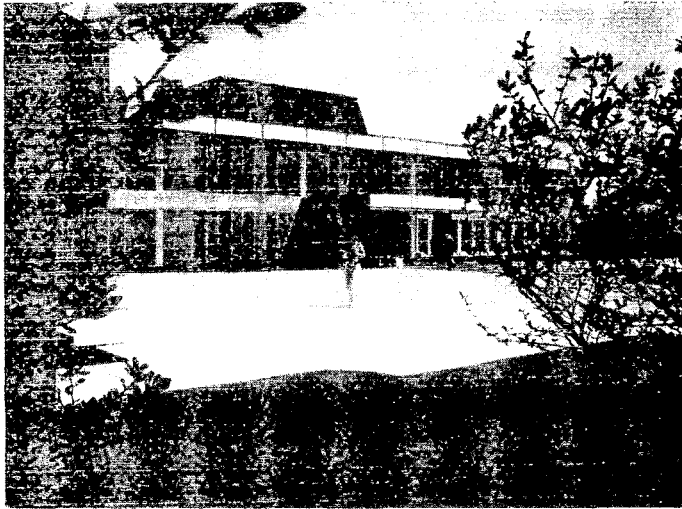
MUSP 275 (2)
 Ensemble (3)
 Electives (music and
 nonmusic) (6)

MUCH 412 (3)
 MUSP 305, 311, 312, and
 313 (8)
 Electives (music and
 nonmusic) (6)

Other programs

A program in music also is offered through the College of
 Arts and Sciences.

1947-1948
1949-1950
1951-1952
1953-1954
1955-1956
1957-1958
1959-1960
1961-1962
1963-1964
1965-1966
1967-1968
1969-1970
1971-1972
1973-1974
1975-1976
1977-1978
1979-1980
1981-1982
1983-1984
1985-1986
1987-1988
1989-1990
1991-1992
1993-1994
1995-1996
1997-1998
1999-2000
2001-2002
2003-2004
2005-2006
2007-2008
2009-2010
2011-2012
2013-2014
2015-2016
2017-2018
2019-2020
2021-2022
2023-2024
2025-2026
2027-2028
2029-2030
2031-2032
2033-2034
2035-2036
2037-2038
2039-2040
2041-2042
2043-2044
2045-2046
2047-2048
2049-2050
2051-2052
2053-2054
2055-2056
2057-2058
2059-2060
2061-2062
2063-2064
2065-2066
2067-2068
2069-2070
2071-2072
2073-2074
2075-2076
2077-2078
2079-2080
2081-2082
2083-2084
2085-2086
2087-2088
2089-2090
2091-2092
2093-2094
2095-2096
2097-2098
2099-2100
2101-2102
2103-2104
2105-2106
2107-2108
2109-2110
2111-2112
2113-2114
2115-2116
2117-2118
2119-2120
2121-2122
2123-2124
2125-2126
2127-2128
2129-2130
2131-2132
2133-2134
2135-2136
2137-2138
2139-2140
2141-2142
2143-2144
2145-2146
2147-2148
2149-2150
2151-2152
2153-2154
2155-2156
2157-2158
2159-2160
2161-2162
2163-2164
2165-2166
2167-2168
2169-2170
2171-2172
2173-2174
2175-2176
2177-2178
2179-2180
2181-2182
2183-2184
2185-2186
2187-2188
2189-2190
2191-2192
2193-2194
2195-2196
2197-2198
2199-2200
2201-2202
2203-2204
2205-2206
2207-2208
2209-2210
2211-2212
2213-2214
2215-2216
2217-2218
2219-2220
2221-2222
2223-2224
2225-2226
2227-2228
2229-2230
2231-2232
2233-2234
2235-2236
2237-2238
2239-2240
2241-2242
2243-2244
2245-2246
2247-2248
2249-2250
2251-2252
2253-2254
2255-2256
2257-2258
2259-2260
2261-2262
2263-2264
2265-2266
2267-2268
2269-2270
2271-2272
2273-2274
2275-2276
2277-2278
2279-2280
2281-2282
2283-2284
2285-2286
2287-2288
2289-2290
2291-2292
2293-2294
2295-2296
2297-2298
2299-2300
2301-2302
2303-2304
2305-2306
2307-2308
2309-2310
2311-2312
2313-2314
2315-2316
2317-2318
2319-2320
2321-2322
2323-2324
2325-2326
2327-2328
2329-2330
2331-2332
2333-2334
2335-2336
2337-2338
2339-2340
2341-2342
2343-2344
2345-2346
2347-2348
2349-2350
2351-2352
2353-2354
2355-2356
2357-2358
2359-2360
2361-2362
2363-2364
2365-2366
2367-2368
2369-2370
2371-2372
2373-2374
2375-2376
2377-2378
2379-2380
2381-2382
2383-2384
2385-2386
2387-2388
2389-2390
2391-2392
2393-2394
2395-2396
2397-2398
2399-2400
2401-2402
2403-2404
2405-2406
2407-2408
2409-2410
2411-2412
2413-2414
2415-2416
2417-2418
2419-2420
2421-2422
2423-2424
2425-2426
2427-2428
2429-2430
2431-2432
2433-2434
2435-2436
2437-2438
2439-2440
2441-2442
2443-2444
2445-2446
2447-2448
2449-2450
2451-2452
2453-2454
2455-2456
2457-2458
2459-2460
2461-2462
2463-2464
2465-2466
2467-2468
2469-2470
2471-2472
2473-2474
2475-2476
2477-2478
2479-2480
2481-2482
2483-2484
2485-2486
2487-2488
2489-2490
2491-2492
2493-2494
2495-2496
2497-2498
2499-2500
2501-2502
2503-2504
2505-2506
2507-2508
2509-2510
2511-2512
2513-2514
2515-2516
2517-2518
2519-2520
2521-2522
2523-2524
2525-2526
2527-2528
2529-2530
2531-2532
2533-2534
2535-2536
2537-2538
2539-2540
2541-2542
2543-2544
2545-2546
2547-2548
2549-2550
2551-2552
2553-2554
2555-2556
2557-2558
2559-2560
2561-2562
2563-2564
2565-2566
2567-2568
2569-2570
2571-2572
2573-2574
2575-2576
2577-2578
2579-2580
2581-2582
2583-2584
2585-2586
2587-2588
2589-2590
2591-2592
2593-2594
2595-2596
2597-2598
2599-2600
2601-2602
2603-2604
2605-2606
2607-2608
2609-2610
2611-2612
2613-2614
2615-2616
2617-2618
2619-2620
2621-2622
2623-2624
2625-2626
2627-2628
2629-2630
2631-2632
2633-2634
2635-2636
2637-2638
2639-2640
2641-2642
2643-2644
2645-2646
2647-2648
2649-2650
2651-2652
2653-2654
2655-2656
2657-2658
2659-2660
2661-2662
2663-2664
2665-2666
2667-2668
2669-2670
2671-2672
2673-2674
2675-2676
2677-2678
2679-2680
2681-2682
2683-2684
2685-2686
2687-2688
2689-2690
2691-2692
2693-2694
2695-2696
2697-2698
2699-2700
2701-2702
2703-2704
2705-2706
2707-2708
2709-2710
2711-2712
2713-2714
2715-2716
2717-2718
2719-2720
2721-2722
2723-2724
2725-2726
2727-2728
2729-2730
2731-2732
2733-2734
2735-2736
2737-2738
2739-2740
2741-2742
2743-2744
2745-2746
2747-2748
2749-2750
2751-2752
2753-2754
2755-2756
2757-2758
2759-2760
2761-2762
2763-2764
2765-2766
2767-2768
2769-2770
2771-2772
2773-2774
2775-2776
2777-2778
2779-2780
2781-2782
2783-2784
2785-2786
2787-2788
2789-2790
2791-2792
2793-2794
2795-2796
2797-2798
2799-2800
2801-2802
2803-2804
2805-2806
2807-2808
2809-2810
2811-2812
2813-2814
2815-2816
2817-2818
2819-2820
2821-2822
2823-2824
2825-2826
2827-2828
2829-2830
2831-2832
2833-2834
2835-2836
2837-2838
2839-2840
2841-2842
2843-2844
2845-2846
2847-2848
2849-2850
2851-2852
2853-2854
2855-2856
2857-2858
2859-2860
2861-2862
2863-2864
2865-2866
2867-2868
2869-2870
2871-2872
2873-2874
2875-2876
2877-2878
2879-2880
2881-2882
2883-2884
2885-2886
2887-2888
2889-2890
2891-2892
2893-2894
2895-2896
2897-2898
2899-2900
2901-2902
2903-2904
2905-2906
2907-2908
2909-2910
2911-2912
2913-2914
2915-2916
2917-2918
2919-2920
2921-2922
2923-2924
2925-2926
2927-2928
2929-2930
2931-2932
2933-2934
2935-2936
2937-2938
2939-2940
2941-2942
2943-2944
2945-2946
2947-2948
2949-2950
2951-2952
2953-2954
2955-2956
2957-2958
2959-2960
2961-2962
2963-2964
2965-2966
2967-2968
2969-2970
2971-2972
2973-2974
2975-2976
2977-2978
2979-2980
2981-2982
2983-2984
2985-2986
2987-2988
2989-2990
2991-2992
2993-2994
2995-2996
2997-2998
2999-3000
3001-3002
3003-3004
3005-3006
3007-3008
3009-3010
3011-3012
3013-3014
3015-3016
3017-3018
3019-3020
3021-3022
3023-3024
3025-3026
3027-3028
3029-3030
3031-3032
3033-3034
3035-3036
3037-3038
3039-3040
3041-3042
3043-3044
3045-3046
3047-3048
3049-3050
3051-3052
3053-3054
3055-3056
3057-3058
3059-3060
3061-3062
3063-3064
3065-3066
3067-3068
3069-3070
3071-3072
3073-3074
3075-3076
3077-3078
3079-3080
3081-3082
3083-3084
3085-3086
3087-3088
3089-3090
3091-3092
3093-3094
3095-3096
3097-3098
3099-3100
3101-3102
3103-3104
3105-3106
3107-3108
3109-3110
3111-3112
3113-3114
3115-3116
3117-3118
3119-3120
3121-3122
3123-3124
3125-3126
3127-3128
3129-3130
3131-3132
3133-3134
3135-3136
3137-3138
3139-3140
3141-3142
3143-3144
3145-3146
3147-3148
3149-3150
3151-3152
3153-3154
3155-3156
3157-3158
3159-3160
3161-3162
3163-3164
3165-3166
3167-3168
3169-3170
3171-3172
3173-3174
3175-3176
3177-3178
3179-3180
3181-3182
3183-3184
3185-3186
3187-3188
3189-3190
3191-3192
3193-3194
3195-3196
3197-3198
3199-3200
3201-3202
3203-3204
3205-3206
3207-3208
3209-3210
3211-3212
3213-3214
3215-3216
3217-3218
3219-3220
3221-3222
3223-3224
3225-3226
3227-3228
3229-3230
3231-3232
3233-3234
3235-3236
3237-3238
3239-3240
3241-3242
3243-3244
3245-3246
3247-3248
3249-3250
3251-3252
3253-3254
3255-3256
3257-3258
3259-3260
3261-3262
3263-3264
3265-3266
3267-3268
3269-3270
3271-3272
3273-3274
3275-3276
3277-3278
3279-3280
3281-3282
3283-3284
3285-3286
3287-3288
3289-3290
3291-3292
3293-3294
3295-3296
3297-3298
3299-3300
3301-3302
3303-3304
3305-3306
3307-3308
3309-3310
3311-3312
3313-3314
3315-3316
3317-3318
3319-3320
3321-3322
3323-3324
3325-3326
3327-3328
3329-3330
3331-3332
3333-3334
3335-3336
3337-3338
3339-3340
3341-3342
3343-3344
3345-3346
3347-3348
3349-3350
3351-3352
3353-3354
3355-3356
3357-3358
3359-3360
3361-3362
3363-3364
3365-3366
3367-3368
3369-3370
3371-3372
3373-3374
3375-3376
3377-3378
3379-3380
3381-3382
3383-3384
3385-3386
3387-3388
3389-3390
3391-3392
3393-3394
3395-3396
3397-3398
3399-3400
3401-3402
3403-3404
3405-3406
3407-3408
3409-3410
3411-3412
3413-3414
3415-3416
3417-3418
3419-3420
3421-3422
3423-3424
3425-3426
3427-3428
3429-3430
3431-3432
3433-3434
3435-3436
3437-3438
3439-3440
3441-3442
3443-3444
3445-3446
3447-3448
3449-3450
3451-3452
3453-3454
3455-3456
3457-3458
3459-3460
3461-3462
3463-3464
3465-3466
3467-3468
3469-3470
3471-3472
3473-3474
3475-3476
3477-3478
3479-3480
3481-3482
3483-3484
3485-3486
3487-3488
3489-3490
3491-3492
3493-3494
3495-3496
3497-3498
3499-3500
3501-3502
3503-3504
3505-3506
3507-3508
3509-3510
3511-3512
3513-3514
3515-3516
3517-3518
3519-3520
3521-3522
3523-3524
3525-3526
3527-3528
3529-3530
3531-3532
3533-3534
3535-3536
3537-3538
3539-3540
3541-3542
3543-3544
3545-3546
3547-3548
3549-3550
3551-3552
3553-3554
3555-3556
3557-3558
3559-3560
3561-3562
3563-3564
3565-3566
3567-3568
3569-3570
3571-3572
3573-3574
3575-3576
3577-3578
3579-3580
3581-3582
3583-3584
3585-3586
3587-3588
3589-3590
3591-3592
3593-3594
3595-3596
3597-3598
3599-3600
3601-3602
3603-3604
3605-3606
3607-3608
3609-3610
3611-3612
3613-3614
3615-3616
3617-3618
3619-3620
3621-3622
3623-3624
3625-3626
3627-3628
3629-3630
3631-3632
3633-3634
3635-3636
3637-3638
3639-3640
3641-3642
3643-3644
3645-3646
3647-3648
3649-3650
3651-3652
3653-3654
3655-3656
3657-3658
3659-3660
3661-3662
3663-3664
3665-3666
3667-3668
3669-3670
3671-3672
3673-3674
3675-3676
3677-3678
3679-3680
3681-3682
3683-3684
3685-3686
3687-3688
3689-3690
3691-3692
3693-3694
3695-3696
3697-3698
3699-3700
3701-3702
3703-3704
3705-3706
3707-3708
3709-3710
3711-3712
3713-3714
3715-3716
3717-3718
3719-3720
3721-3722
3723-3724
3725-3726
3727-3728
3729-3730
3731-3732
3733-3734
3735-3736
3737-3738
3739-3740
3741-3742
3743-3744
3745-3746
3747-3748
3749-3750
3751-3752
3753-3754
3755-3756
3757-3758
3759-3760
3761-3762
3763-3764
3765-3766
3767-3768
3769-3770
3771-3772
3773-3774
3775-3776
3777-3778
3779-3780
3781-3782
3783-3784
3785-3786
3787-3788
3789-3790
3791-3792
3793-3794
3795-3796
3797-3798
3799-3800
3801-3802
3803-3804
3805-3806
3807-3808
3809-3810
3811-3812
3813-3814
3815-3816
3817-3818
3819-3820
3821-3822
3823-3824
3825-3826
3827-3828
3829-3830
3831-3832
3833-3834
3835-3836
3837-3838
3839-3840
3841-3842
3843-3844
3845-3846
3847-3848
3849-3850
3851-3852
3853-3854
3855-3856
3857-3858
3859-3860
3861-3862
3863-3864
3865-3866
3867-3868
3869-3870
3871-3872
3873-3874
3875-3876
3877-3878
3879-3880
3881-3882
3883-3884
3885-3886
3887-3888
3889-3890
3891-3892
3893-3894
3895-3896
3897-3898
3899-3900
3901-3902
3903-3904
3905-3906
3907-3908
3909-3910
3911-3912
3913-3914
3915-3916
3917-3918
3919-3920
3921-3922
3923-3924
3925-3926
3927-3928
3929-3930
3931-3932
3933-3934
3935-3936
3937-3938
3939-3940
3941-3942
3943-3944
3945-3946
3947-3948
3949-3950
3951-3952
3953-3954
3955-3956
3957-3958
3959-3960
3961-3962
3963-3964
3965-3966
3967-3968
3969-3970
3971-3972
3973-3974
3975-3976
3977-3978
3979-3980
3981-3982
3983-3984
3985-3986
3987-3988
3989-3990
3991-3992
3993-3994
3995-3996
3997-3998
3999-4000
4001-4002
4003-4004
4005-4006
4007-4008
4009-4010
4011-4012
4013-4014
4015-4016
4017-4018
4019-4020
4021-4022
4023-4024
4025-4026
4027-4028
4029-4030
4031-4032
4033-4034
4035-4036
4037-4038
4039-4040
4041-4042
4043-4044
4045-4046
4047-4048
4049-4050
4051-4052
4053-4054
4055-4056
4057-4058
4059-4060
4061-4062
4063-4064
4065-4066
4067-4068
4069-4070
4071-4072
4073-4074
4075-4076
4077-4078
4079-4080
4081-4082
4083-4084
4085-4086
4087-4088
4089-4090
4091-4092
4093-4094
4095-4096
4097-4098
4099-4100
4101-4102
4103-4104
4105-4106
4107-4108
4109-4110
4111-4112
4113-4114
4115-4116
4117-4118
4119-4120
4121-4122
4123-4124
4125-4126
4127-4128
4129-4130
4131-4132
4133-4134
4135-4136
4137-4138
4139-4140
4141-4142
4143-4144
4145-4146
4147-4148
4149-4150
4151-4152
4153-4154
4155-4156
4157-4158
4159-4160
4161-4162
4163-4164
4165-4166
4167-4168
4169-4170
4171-4172
4173-4174
4175-4176
4177-4178
4179-4180
4181-4182
4183-4184
4185-4186
4187-4188
4189-4190
4191-4192
4193



FIRELANDS COLLEGE

Algalee P. Adams, *Dean*, 122 East Building, 433-5560, Ext. 229

Catherine Dyer, *Director of Student Services*, 139 North Building, 433-5560, Ext. 257

John P. Hartung, *Director of Registration*, 114 East Building, 433-5560, Ext. 239

James H. McBride, *Coordinator for Community Services*, 162 North Building, 433-5560, Ext. 217

Denise Mutsko, *Director of Public Affairs/Admissions Officer*, 110 East Building, 433-5560, Ext. 213

Charles C. Stocker, *Business Manager*, 101 East Building, 433-5560, Ext. 238

THE COLLEGE

Firelands College is a state-assisted, two-year regional branch campus and college of Bowling Green State University. The campus is located at the Rye Beach Road intersection of State Route 2 and U.S. Route 6 in Huron, Ohio

THE MISSION OF FIRELANDS COLLEGE

Firelands College strives to increase students' understanding of the world in which they live so that they may participate rationally in society's decisions. The campus is primarily student-oriented and endeavors to provide the academic atmosphere, the human association, and the discipline vital to a student's total development.

Firelands College interprets its mission through activities related to its students, to the community it serves, and to its faculty and staff. It recognizes, through its activities, the necessity for open interaction among students, faculty, and the community.

A major emphasis at Firelands College has been and continues to be the offering of university instruction by a qualified resident university faculty. Firelands is in a unique position to combine this university instruction with an academic climate and size conducive to close contact and interaction among students, faculty, and the community. This interaction is manifest in a variety of pre-baccalaureate and two-year associate degree programs, extension, and lifelong learning offerings.

FIRELANDS LIBRARY

The Firelands College Library functions as an integral part of the educational process. The collection of more than 30,000 books, 290 periodical subscriptions, and a wide variety of audio-visual materials enhances the instructional program and provides additional resources for use by members of the community. The collection of the University Libraries in Bowling Green is also made available to Firelands College students through a regular shuttle service.

The Library Handbook, issued annually, contains specific information on the services of the library and audio-visual center as well as a general introduction to the use of library research tools. Instruction in library usage is offered throughout the academic year and is explained in detail in the handbook.

ADMISSIONS

The procedure for admission to Bowling Green State University is described on page 13. Students seeking admission to Firelands College should follow the same procedure.

For specific information, tours, or an admissions interview, contact the Firelands Admissions Office, 901 Rye Beach Road, Huron, Ohio 44839.

HOUSING

A wide variety of reasonably priced housing options is available throughout the Firelands area. The Firelands Admissions Office maintains a listing of local housing which includes rooms, apartments, and houses.

With the large increase in summer population in the area, many housing options in the local community are available at very reasonable rates during the academic year. Students should, however, plan to provide their own transportation to and from Firelands College. For further information or a complete housing list, contact the Firelands Admissions Office.

REGISTRATION

The Office of Registration at Firelands is responsible for the coordination of all registration and bursar-related functions for Firelands students. Student concerns relative to academic policies, registration for classes, payment of fees, and academic records should be addressed to this office, 104 East Building.

STUDENT SERVICES

Firelands College encourages the positive development of students and provides a variety of services to assist them. These services include career development and placement; counseling; tutoring; program advisement; and developmental education opportunities. The Student Services Offices maintain day and evening hours to accommodate all students.

Career Development and Placement Services provide group and individual counseling in career planning, decision making, resume writing, interviewing, and job placement.

Counseling Services provide assistance in educational and career planning as well as in personal and social concerns. A variety of developmental and skill-oriented workshops focus on such topics as effective study habits, test anxiety, interpersonal relations, assertiveness training, and career exploration.

Tutoring. Recognizing that students may, occasionally, experience academic difficulties in a particular area of study, Firelands College provides a student tutoring program at no charge. Student tutors are approved by faculty members in the area of the tutor's academic competency. Students are eligible to receive tutoring services following a conference with their individual instructor. This service is coordinated through the Student Services Office of Firelands College.

Program advisement is another important aspect of student services at Firelands.

Each student who enrolls in college-level work has certain needs, expectations, skills, and goals. Realizing how these factors interrelate with the demands of college-level work is vital to the ultimate success of the student. Academic advising at Firelands College provides the opportunity for students to gather information about various fields of study available through Bowling Green State University. Underclassmen who are admitted to pre-baccalaureate or associate degree programs are assigned to advisers at Firelands.

Students who enroll at Firelands College without specifically defined goals for a two-year or four-year degree have the opportunity to discuss their interests and objectives with the Program Advisement Office at Firelands College. Students who are undecided about what directions to take for academic planning and students who are returning to school after an absence from the academic environment may wish to take advantage of advising opportunities.

Informational resources on academic programs, career and interest testing, library reference materials, and skill development are available throughout the Firelands College community. Representatives from the main campus of Bowling Green State University are available at specific times throughout the academic year to provide information on four-year baccalaureate degree programs.

Developmental Education Opportunities are also available for students who encounter learning situations for which they have less than the necessary skill development. This may come from inadequate preparation, lengthy absence from the academic environment, or encounters with new or difficult tasks.

A variety of support opportunities are available to students who desire or need supplemental assistance with basic skills preparation. Open laboratories are available in reading, writing, and mathematics. In addition, courses designed to improve basic preparation in writing skills, mathematics, and reading/study skills are offered during the academic year. Each fall, all new students have the opportunity to enroll in a credit course introducing them to various aspects of the college environment. Academic advisers can assist students with the information about these support opportunities.

STUDENT LIFE AND ACTIVITIES

Firelands College provides cocurricular opportunities for students' personal growth and development. Social, cultural, and athletic programs are sponsored by the Student Activities Office, various student organizations, and academic departments of the University. An opportunity for self-government is afforded each student through elected representatives or by his or her own election to office. Many academic departments and student groups provide additional opportunities for learning through lectures, seminars, and activity programs. A committee composed of students and faculty advisers to organizations develops a calendar of activities and events each year. Chartered clubs and organizations include:

- Student Advisory Board
- Black Student Union
- Firelands Environmental Club
- Firelands Film Factory
- Intramurals
- The Lamp
- Society of Manufacturing Engineers
- Phi Beta Lambda
- Ski Club
- Speech Activities Organization
- Firelands College Theatre
- Sociology and Social Work Club
- Weight Club

FINANCIAL AID AND SCHOLARSHIPS

The Financial Aid Office, 101 East Building, coordinates all Basic Educational Opportunity Grants (BEOG), Ohio Instructional Grants (OIG), National Direct Student Loans (NDSL), and Emergency Loans. The Office for Community Services, 162 North Building, coordinates all scholarship programs. Students should direct questions to the appropriate office.

SCHOLARSHIPS

Numerous annual scholarships are administered by Firelands College. Applications for these scholarships are available from the Financial Aid, Admissions, or Community Services Offices and must be filed by April 15 to be considered for the next academic year. Special need analysis forms are not required for scholarships administered directly by the Firelands College, which include:

- BGSU Alumni Scholarships
- Robert D. Carver Scholarship
- Central Soya Scholarships
- Erie County Bank Scholarship
- Erie County Board of Realtors Scholarship
- Firelands College Alumni Scholarship
- Firelands Community Bank Scholarship
- Thomas J. Hanlon Memorial Scholarship
- The Harlequins Founders' Scholarship
- Huron Junior Women's League Scholarship
- Huron Police Association
- Huron Rotary Club
- Huron Welcome Wagon Club

- Knights of Columbus, Sandusky Firelands Shrine Club and Singara Grotto Scholarships
- Milan Chamber of Commerce Scholarship
- Milan Mothers Club Scholarship
- William Parker Scholarship
- Plastics Engineers Scholarship
- Sandusky Exchange Club Scholarship
- Sandusky Optimist Club Scholarship
- Sandusky Register Scholarships
- The Savings Building and Loan Company Scholarship
- Lyle L. Speer Memorial Scholarship
- Student Advisory Board Scholarship
- Robert W. Traver Memorial Scholarship
- Women's Civic Club of Sandusky
- Bowling Green State University Scholarships
- Zonta Club of Sandusky Scholarship

EMERGENCY LOAN FUNDS

The objective of the Firelands College Emergency Loan Fund Program is to assist students who, for one reason or another, find it extremely difficult or impossible to make payment for University instructional and general fees by the payment date.

Amount of Loan

The maximum loan that may be granted is \$250. The amount of the loan is contingent upon the time of application and is determined by the person administering the loan fund. All loans of \$250 need the approval of the loan committee and require a cosignature.

Student Qualifications

The emergency loan program is available to continuing Firelands College students who have a 2.0 ("C") accumulative grade point average. Students in their first quarter on campus or those below a 2.0 average will be considered on an individual basis as funds are available. Transient students are not eligible for a loan under any circumstances.

Repayment Deadline

All loans during any quarter become due as specified in the loan agreement. Students may request an extension from the loan committee.

Finance Charge

A finance charge will be assessed for all loans as follows:

Loan \$ 1-\$ 50	finance charge \$1
Loan \$ 51-\$ 99	finance charge \$5
Loan \$100-\$250	finance charge \$7.50

Late Payment

Students are charged a \$.25 per day late payment fee, including Saturday and Sunday, not to exceed \$15. A three-day grace period is extended; however, on the fourth day after the due date, the late fee will be \$1.

Non-payment

Students not repaying loans by the end of the grace period (three days after the due date) will have their class registration for that quarter cancelled and all records in the Office of the Registrar frozen. Also, they will be denied registration for any future quarters until the loan and penalty are repaid.

OTHER LOANS

Harry G. Beare Memorial Loan Fund

This loan is available to Firelands College students who are graduates, or candidates for graduation, from Edison High School in Milan. The loan is based on proven financial need and is interest free. However, it is suggested that, upon repayment of the loan, the student make a gift to the loan fund so that it may gradually increase in size and usefulness.

Kiwanis Club of Sandusky Loan Program

The Kiwanis Club of Sandusky has a loan program available to any student in the Firelands College area. The student may negotiate a maximum loan of \$250 per year which is non-interest bearing while he or she is in school. An interest rate of six percent per annum is charged once the student is no longer enrolled at the University. Early repayment of the loan is encouraged after the student's graduation or termination of enrollment in order to allow financial assistance to other students.

V.F.W. Post No. 2743 Loan Fund

The Norwalk Post No. 2743 of the Veterans of Foreign Wars has established a loan fund for Firelands College students. Loans are individually negotiated and no interest is charged when terms of the loan are met. The loan is administered by an agent of the veteran's organization. However, information is available at the Firelands College Financial Aid Office.

ACADEMIC OBJECTIVES AND ORGANIZATION

Firelands is organized as a college of Bowling Green State University. The college has three academic departments: applied sciences, humanities, and natural and social sciences. The departments are structured by academic discipline:

Applied sciences

Applied mathematics and science
Business management
Computer science
Design technology
Electronic technology
Environmental health
Industrial engineering technology
Information systems
Manufacturing technology
Medical record technology
Technology, general
Visual communication technology

Humanities

Art
Creative writing
English
French
Health
Journalism
Library
Philosophy
Physical education
Spanish
Speech communication
Theatre arts

Natural and social sciences

Biology
Chemistry
Economics
Geography
Geology
History
Home economics
Human services
Mathematics
Physics
Political science
Psychology
Sociology

PRE-BACCALAUREATE COURSES

Firelands College of Bowling Green State University offers a wide variety of courses that can be applied to most baccalaureate majors available at the Bowling Green campus of the University. Because Firelands College does not offer the baccalaureate degree, a student who plans to complete the degree at Bowling Green State University must complete a minimum of 30 quarter hours of credit in upper division courses taught on the campus in Bowling Green.

Course work is available from the Colleges of Education, Business Administration, Arts and Sciences, and Health and Community Services. Students who are interested in completing a baccalaureate degree at Bowling Green should consult the appropriate section of this *Bulletin* for a complete program description. These students should work closely with their academic advisers at Firelands to ensure completion of correct group requirements for the degree sought.

GENERAL EDUCATION COURSES

A university education implies more than the learning of specific skills that can be applied in a career or job. Rapid societal changes and new technological advances create a potential for careers that have yet to be defined. The acquisition of knowledge from broad areas of human learning contribute to the foundation of the well educated person. Through the task of internalizing this knowledge, a process for learning can be developed. This process will contribute significantly to the continuing growth and development of the individual, and, in turn, society in general.

The academic resources of Bowling Green State University and Firelands College are designed to help students discover themselves, their values, their needs, and, through the courses of the general education requirements, to gain insight into the challenges of becoming aware human beings.

Designed to contribute to the foundation of the baccalaureate degree programs, these requirements add breadth to the specialization, or major field, selected by the student. These requirements are grouped into four areas: language, humanities, social science, and mathematics-physical sciences.

A wide variety of general education courses is available at Firelands. These courses can be used to meet the appropriate group requirement areas in baccalaureate and associate of arts degree programs.

UPPER DIVISION COURSES

Firelands College is primarily intended to serve the higher educational needs of a student in the freshman and sophomore years of college. However, an important function of the college, as part of Bowling Green State University, is to provide opportunities for some study at the junior, senior, and graduate levels.

LIFELONG LEARNING (NONCREDIT) COURSES

The Office for Community Services provides a wide variety of lifelong learning (noncredit) courses, workshops, and seminars at Firelands College. The chief purpose of the continuing education offerings is to provide area residents with opportunities to develop new skills or to stimulate new interests. Special workshops and seminars are also offered in many topical areas including management, education, computers, industrial education and technology, and environmental quality control.

Lifelong learning courses, workshops, seminars, and in-service training programs may be organized for a particular firm, school, organization, or interest group. Inquiries relative to the offering of such specific programs should be directed to the Office for Community Services at Firelands College.

ASSOCIATE DEGREE PROGRAMS

Three associate degrees are offered by Firelands College: Associate of Arts; Associate of Applied Science; and Associate of Applied Business. The Associate of Arts programs are designed to fulfill the first two years' requirements toward a baccalaureate degree, but may also serve as terminal programs for students who do not plan to complete a four-year degree. The Associate of Applied Business and Associate of Applied Science degrees are primarily intended to prepare students for employment directly upon graduation. Although termed career education, they are articulated with similarly oriented four-year programs, and a student may continue toward a baccalaureate degree in related disciplines.

Students who seek an associate degree must complete both general requirements and specific requirements for the degree sought.

GENERAL REQUIREMENTS

A candidate for an associate degree at Firelands College must satisfy the general requirements listed on page 8.

Those with an American College Test score of 20 or below must complete ENG 111 before taking 112. Those with an ACT score of 11 or below will be required to complete both ENG 110 and 111 before taking 112. Equivalent Career Planning Profile scores may be used for English placement upon the recommendation of the director of student services. No more than eight credit hours of basic writing from ENG 110, 111, and 112 may be applied toward graduation.

Residency Requirement

Students who seek an associate degree from Firelands must complete at least 30 of their final 36 hours of credit immediately before graduation at BGSU. Students who choose to complete their residency requirement at a BGSU college other than Firelands must also complete 30 hours at the Firelands campus. Neither transfer credit from a college or university outside BGSU nor credits by examination will be accepted toward completion of the residency requirement.

ASSOCIATE OF ARTS

Firelands College offers two years of general education courses leading to the Associate of Arts degree. Conferring of the Associate of Arts degree signifies students have reached the half-way point in the progression toward a baccalaureate degree.

The Associate of Arts degree program is designed to provide pre-baccalaureate students with sound academic backgrounds in a breadth of academic disciplines. Credits earned are transferrable to four-year programs. The program offers students flexibility sufficient to meet general education requirements of college or university programs they may enter. The intent is to provide a liberal background within a two-year program. In addition, a concentration is available in one or two disciplines in the areas of the student's primary interests. Eight general education programs have been developed in the following areas:

- Elementary Education
- Humanities
- Human Services
- Liberal Studies
- Pre-Business Administration
- Science
- Secondary Education
- Social Science

ASSOCIATE OF ARTS REQUIREMENTS

This degree is awarded to a student who completes one of the prescribed curricula, including the general education requirements listed below and complies with general degree requirements cited previously.

Communication

Each student is required to acquire proficiency in written expression and oral communication. ENG 112 and SPCH 102 are required.

Mathematics and Science

Each student must complete a minimum of 15 credit hours in mathematics and science.

Social Sciences

Each student must complete a minimum of 15 credit hours in courses designated social science.

Fine and Applied Arts

Each student must complete a minimum of 15 credit hours in courses designated fine and applied arts including one course in ENG literature.

Physical Education

Three academic quarters of physical education (PEG 100) are required of each student for a minimum of three credits. This requirement may be waived if a student has attained the age of 21 at the time of initial registration, has a written statement from a personal physician, or is a veteran of the military service. Exemption from physical education does not excuse a student from meeting the 93 quarter hours minimum graduation requirement.

Electives

Each student must select a sufficient number of electives to earn a minimum of 93 hours. A student planning to pursue a baccalaureate degree in arts and sciences is encouraged to take a foreign language.

A. HUMANITIES

This degree program provides the foundation of a Bachelor of Arts program with concentrations in approved humanities areas within the framework of Firelands College course offerings. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. Eight hours minimum.

Mathematics and Science

Each student must complete both (A) and (B) below. Fifteen hours minimum.

A. One of the following:

1. Three and one-half years of high school mathematics or equivalent proficiency as demonstrated on a placement test.
2. MATH 110 or 121, and one of the following: PHIL 103, or CS 100, 101, or 103.
3. Three years of high school mathematics and CS 100, or 101, or 103.

B. At least two courses elected from biological sciences, chemistry, geology, physical geography (GEOG 125, 126, 127, 213). At least one course must be approved for laboratory credit.

Students planning on pursuing Bachelor of Fine Arts or Bachelor of Arts in Communication degree programs at Bowling Green State University may elect to follow the Group III mathematics and science requirements for those degrees in order to satisfy this requirement.

Social and Behavioral Science

Each student must complete a minimum of 15 hours from at least two disciplines including a minimum of eight hours in one discipline. Eligible disciplines include: economics, geography, history, political science, psychology, social geography, and sociology.

Fine and Applied Arts

Each student must complete a minimum of 28 hours from at least three of the following disciplines: art, literature, philosophy (except PHIL 103, when used to apply to mathematics/science requirements), theatre, film, music, popular culture and American studies. One course in literature and one course in the fine arts (art, music, theatre, film) must be included. See the College of Arts and Sciences Group V listing of approved courses.

Typical Schedule

First Year (48-56 hours)

ENG 111 and/or 112 (4-8)
Mathematics elective (5)
Science (8-10)
Social science (8)

Fine and applied arts (8)
PEG 100 (3)
SPCH 102 (4)
Electives (8-10)

Second Year (45 hours)

ENG literature (4)
Social science (7)

Fine and applied arts (16)
Electives (18)

B. LIBERAL STUDIES

This curriculum permits the undecided student to sample a variety of disciplines while insuring a well rounded background in preparation for continuing study. A student can obtain a degree in liberal studies and a foundation in journalism or another profession or a two-year terminal degree. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. Eight hours minimum.

Mathematics and Science

Each student must complete a minimum of 15 hours in at least two sciences or a science and a mathematics combination.

Social and Behavioral Sciences

Each student must complete a minimum of 15 hours chosen from the following departments: economics, geography, history, political science, psychology, and sociology.

Fine and Applied Arts

Each student must complete both (A) and (B) below.

- A. *Fine Arts and Humanities*: Each student must complete a minimum of 15 hours from at least two of the following: art, film, English, music, philosophy (except PHIL 103 when used to apply to math and science requirements), popular culture, theatre and American studies. One course in ENG literature must be included.
- B. *Applied Arts*: Each student must complete a minimum of four hours from the following: business education, environmental health, health education, home economics, industrial education and technology, or journalism.

Other Requirements

In addition, each student must complete 24 hours at the 200 level.

Typical Schedule

<i>First Year</i> (42-48 hours)	
ENG 111 and/or 112 (4-8)	Fine and applied arts (7)
Mathematics and science (10)	PEG 100 (3)
Social science (8)	SPCH 102 (4)
	Electives (6-8)
<i>Second Year</i> (45 hours)	
ENG literature (4)	Social science (7)
Mathematics and science (5)	Fine and applied arts (4)
Electives (25)	

C. SCIENCE

This program provides the foundation for a Bachelor of Science degree in such areas as biological sciences, computer science, chemistry, geology, physical geography, mathematics, and physics. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. Eight hours minimum.

Mathematics and Science

Each student must complete a minimum of 30 hours including a concentration of four courses in a major field and two courses in a cognate field. Eligible disciplines include: biological sciences, computer science, chemistry, geology, physical geography, mathematics, and physics. MATH 130 or 131, depending on a student's preparation, is required.

Social and Behavioral Sciences

Each student must complete a minimum of 21 hours including PSYC 201 and courses from at least two other disciplines. Eligible disciplines include: economics, geography, history, political science, and sociology.

Fine and Applied Arts

Each student must complete a minimum of 15 hours from at least two of the following: art, film, literature, music, popular culture, philosophy, speech and theatre. One course in

literature must be included; a course in the fine arts (art, film, music or theatre) is highly recommended. (See College of Arts and Sciences listings for Group V courses.)

Typical Schedule

<i>First Year</i> (50-58 hours)	
ENG 111 and/or 112 (4-8)	Fine and applied arts (7)
MATH 130 or 131 (5)	PEG 100 (3)
Science (15)	SPCH 102 (4)
Social science (8)	Electives (4-8)
<i>Second Year</i> (45 hours)	
ENG literature (4)	Social science (7)
Science (15)	Fine and applied arts (4)
PSYC 201 (5)	Electives (10)

D. SOCIAL SCIENCE

This curriculum offers the foundation of a Bachelor of Arts degree program with concentrations in approved social science areas chosen from Firelands courses. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts program. Eight hours minimum.

Mathematics and Science

Each student must complete both (A) and (B) below. Fifteen hours minimum.

- A. One of the following:
1. Three and one half years of high school mathematics or equivalent proficiency as demonstrated on a placement test.
 2. MATH 115, 122, 124, or 130.
 3. MATH 110, or 121, and one of the following: PHIL 103, or CS 100, 101, or 103.
 4. Three years of high school mathematics and CS 100, 101, or 103.
- B. At least two courses elected from biological sciences, chemistry, geology, physics, or physical geography (GEO 125, 126, 127, 213). One course must be approved for laboratory credit.

Social and Behavioral Sciences

Each student must complete a minimum of 28 hours from at least three of the following disciplines: anthropology, economics, history, social geography, psychology and sociology. Students should also have an area of concentration from one of these disciplines.

Fine and Applied Arts

Each student must complete a minimum of 15 hours from at least two of the following: art, film, literature, music, philosophy (except PHIL 103 when used to apply to mathematics/science requirements), popular culture, speech and theatre. One course in literature must be included; a course in the fine arts (art, film, music or theatre) is highly recommended. (See College of Arts and Sciences listings for Group V courses.)

Typical Schedule

<i>First Year</i> (48-58 hours)	
ENG 111 and/or 112 (4-8)	Fine and applied arts (8)
MATH elective (5)	SPCH 102 (4)
Science (8-10)	PEG 100 (3)
Social science (12)	Electives (4-8)
<i>Second Year</i> (45 hours)	
ENG literature (4)	Fine and applied arts (3)
Social science (16)	Electives (22)

E. PRE-BUSINESS

This program of study includes the general education requirements and offers business foundations in mathematics, accounting, economics, and statistics. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. SPCH 102 and one additional course in speech communication are required. Twelve hours minimum.

Mathematics and Science

Each student must complete a minimum of 26 hours including STAT 211 and 212, MIS 200 and one of the following:

- A. MATH 124 and 125 and a science (15 hours); or
- B. MATH 131, 231, and 232 (15 hours).

Social and Behavioral Sciences

Each student must complete a minimum of 23 hours including PSYC 201 or SOC 101, and ECON 202 and 203. The remainder may be chosen from the following: geography, history, political science, psychology, and sociology.

Fine and Applied Arts

Each student must complete a minimum of 15 hours from at least two of the following departments: art, foreign language, English, philosophy, and speech. One course in ENG literature must be included.

Other Requirements

Each student must complete ACCT 221 and 222.

Typical Schedule

First Year (46-50 hours)

ENG 111 and/or 112 (4-8)	Social science (8)
MATH 124 and 125 (10) or	Fine and applied arts (8)
MATH 131 and 231 (10)	SPCH 102 (4)
Science and Mathematics	PEG 100 (3)
(5)	

Second Year (45-48 hours)

ENG literature (4)	Fine and applied arts (3)
PSYC 201 (5) or SOC 101 (4)	Speech communication (4)
MIS 200 (4)	Social science (4)
ECON 202 and 203 (4)	Electives (6-8)
ACCT 221 and 222 (4)	

F. ELEMENTARY EDUCATION

This curriculum provides courses prescribed by colleges of education to students seeking certification in elementary education. These courses are those designated for the first two years and insure a broad background of study. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. Eight hours minimum.

Mathematics and Science

Each student must complete MATH 241 and 242, and BIOL 101 or 104. In addition, one course from two different physical science departments with a minimum of eight hours is required, to be chosen from the following: chemistry, geology, physics, and physical geography. Twenty-two hours minimum.

Social and Behavioral Sciences

Each student must complete all courses listed below plus one additional social science course, except from geography or history. Twenty-nine hours minimum.

GEOG 121 and 122 (8)	PSYC 201 (5)
HIST 205 and 206 (8)	Social science elective (4)
HIST 151, 152, or 153 (4)	

Fine and Applied Arts

Each student must complete ART 101 and an ENG literature course. Two additional courses must be selected from the following areas: art, business education, English, French, home economics, industrial education and technology, philosophy, Spanish, and speech. Fifteen hours minimum. IPCO 202 and PHIL 103 are recommended.

Other Requirements

Each student must complete the following:
HED 109 and 110 (5)

Typical Schedule

First Year (48-54 hours)
ENG 111 and/or 112 (4-8)
BIOL 101 or 105 (5)
Physical science (4)
GEOG 121 and 122 (8)
HIST 151, 152, or 153 (4)
Second Year (45 hours)
ENG literature (4)
MATH 241 and 242 (10)
Physical science (4)
HIST 205 and 206 (8)

HED 109 and 110 (5)
PEG 100 (3)
ART 101 (3)
SPCH 102 (4)
Electives (8-10)

Social science elective (4)
Fine and applied arts (8)
Electives (8)

G. SECONDARY EDUCATION

Students in this program have the opportunity to complete the general education requirements of colleges of education and to meet major and minor requirements in courses offered at Firelands College. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. Eight hours minimum.

Mathematics and Science

Each student must complete a minimum of 15 hours in at least two sciences or a science and a mathematics combination.

Social and Behavioral Sciences

Each student must complete a minimum of 20 hours, including PSYC 201, chosen from the following departments: economics, geography, history, political science, psychology, and sociology.

Fine and Applied Arts

Each student must complete a minimum of 15 hours from at least two of the following departments: art, business education, English, French, home economics, industrial education and technology, philosophy, Spanish, and speech. One course in English literature must be included.

Other Requirements

Each student should consult an adviser for information concerning courses required in various secondary teaching fields.

Typical Schedule

First Year (48-56 hours)
ENG 111 and/or 112 (4-8)
Mathematics and science (10)
Social science (8)
Second Year (45 hours)
ENG literature (4)
Mathematics and science (5)
Social science (7)

Fine and applied arts (7)
PEG 100 (3)
Electives (major/minor) (16-20)

Fine and applied arts (4)
Electives (major/minor) (25)

H. HUMAN SERVICES

This program prepares students for employment as paraprofessionals in community social service agencies. The program also provides a means for those currently employed in agencies and organizations to improve in proficiencies and qualify for promotions.

The two-year degree program combines academic courses and supervised field experiences. This associate degree transfers to several baccalaureate community services programs offered by the College of Health and Community Services. In addition to the Associate of Arts general education requirements, students must complete the following:

Communication

See general education requirements for Associate of Arts programs. Eight hours minimum. In addition, IPCO 203 is required.

Mathematics and Science

Each student must complete a minimum of 15 credit hours in mathematics and science. MATH 115 or STAT 211 is

required. Science courses may be selected from biology, chemistry, geology, physical geography, computer science, and physics.

Social and Behavioral Sciences

A minimum of 40 hours in social and behavioral areas is required. Required courses are: PSYC 201, 303, and 305; C 101, 202, and 361 (or HOEC 105); POLS 201; SOWK 110 and 220.

Fine and Applied Arts

BAT 200, BUSE 230, PHIL 102, and HED 110 are required. One course in literature must be included.

Field Experience

Thirty volunteer hours in a supervised field experience is one of the requirements for SOWK 220. During the student's second year, a ten-week supervised field experience at a campus-approved agency is required. Two to six credit hours (HOEC 287) may be earned depending on the number of weekly hours of the field experience. A seminar in human services (EXPR 201) is taken at the same time as the supervised field experience.

Typical Schedule

First Year (45-47 hours)

ENG 111 and/or 112 (4-8)	IPCO 203 (4)
SPCH 102 (4)	MATH 115 (5)
PSYC 201 (5)	HED 110 (2)
BAT 200 (4)	POLS 201 (4)
SOC 101 (4)	PEG 100 (1-2)
SOWK 110 and 220 (8)	

Second Year (45-55 hours)

Science elective (4-5)	BUSE 230 (3)
PSYC 303 and 305 (6)	PHIL 102 (4)
SOC 202 and 361 (8)	HOEC 287 (2-5)
HOEC 105 (4)	EXPR 201 (3)
Literature course (4)	Electives (6-10)
PEG 100 (1-2)	

ASSOCIATE OF APPLIED BUSINESS

Two-year, career-oriented curricula are available leading to the Associate of Applied Business degree. These programs prepare students for immediate employment in area communities and elsewhere, and also may be transferred to similarly oriented baccalaureate degree programs.

Usually, general education group requirements are not part of the curriculum. Those general education courses that are taken are in some related general education field (such as English, speech, psychology), in appropriately related disciplines (such as applied mathematics and science, physical science), and in specific major areas (such as business management, secretarial technologies).

Applied Business programs offered at Firelands include:
 Business Management Technology
 Computer Science Technology
 Executive Secretarial Technology

ASSOCIATE OF APPLIED BUSINESS REQUIREMENTS

This degree is awarded to a student who successfully completes the career-oriented programs listed below and the general associate degree requirements listed on page 8.

A. BUSINESS MANAGEMENT TECHNOLOGY

Jeffrey N. Krabill, *Program Director*

311-A West Building, Firelands College, 433-5560, Ext. 247
 Planned Program

Persons completing the business management technology program are involved in the management of both human and capital resources. Their work may include personnel administration, operations and production supervision, marketing, business research, financial management, accounting, or the many applications found in the small business environment. The program's emphasis is on preparing students by giving them a solid, broad management skills background. Career opportunities exist in the industrial sector, private service firms, governmental agencies and nonprofit organizations.

First Year

General Education

ENG 111 and/or 112 (8) PSYC 201 (5)

Basic Courses

MATH 110 and 130 (10) STAT 211 (4)

Core Courses

BAT 102, 200, 201, and LEGS 301 (4)

204 (16) BA 303 (4)

MIS 200 (4)

Second Year

General Education

ECON 202 and 203 (8) SPCH 102 (4)

Basic Courses

STAT 212 (4)

Core Courses

BAT 203, 205, 206, and ACCT 221 and 222 (8)

207 (16) BUSE 335 (4)

B. COMPUTER SCIENCE TECHNOLOGY

Michael C. Mesner, *Program Director*

233 North Building, Firelands College, 433-5560, Ext. 268

Planned Program

Computer science technicians are two-year college graduates with an associate of applied business degree. Graduates will have learned principles of computer logic and decision making, computer languages (FORTRAN, COBOL, IBM 360/370 Assembler), advanced programming skills such as structured design, basic system architecture, and techniques of system analysis. Career opportunities exist in business, industry, education, government or public service as application programmers, maintenance programmers or programmer/analysts.

First Year

General Education

ENG 111 and/or 112 (4-8) SPCH 102 (4)

PHIL 103 (4)

Basic Courses

MATH 110, 124, or 131 (5) MATH 125, 130, or 231 (5)

STAT 211 (4)

Core Courses

CS 101, 104, 210, and 360 (18)

Electives (recommended)

BAT 102 (4) ENG 111 (4)

Second Year

General Education

PSYC 201 (5) SOC 101 (4)

Basic Courses

ACCT 221 and 222 (8)

Core Courses

CS 201 and 202 (8) CS 390 (1-4)

CST 221, 231, and 232 (9)

Electives

STAT 212 (4) BAT 200 (4)

MGMT 300 (4)

C. EXECUTIVE SECRETARIAL TECHNOLOGY

Teresa A. Marano, *Program Director*

311-B West Building, Firelands College, 433-5560, Ext. 253

Planned Program

The two-year executive secretarial technology program at Firelands College prepares students for secretarial positions in industrial establishments, professional offices, and government agencies. Upon successful completion of the two-year program, students receive an associate degree in applied business.

The program is designed to give students specific office skills necessary to attain positions as secretarial and/or administrative assistants. In addition, courses in communication and business theory enhance students' opportunities for career advancement. The program can meet the needs of both beginning and advanced secretarial students, and credits received may be applied toward a four-year baccalaureate degree in a related field.

A one-year clerical program option is available to prepare students for clerk/typist positions. The program is arranged so that credits received in a one-year program are transferable if a student later decides to pursue a two- or four-year degree in a related field. To receive the clerical certificate, the student must have at least a 2.0 grade point average for all work attempted.

First Year

General Education

ENG 111* and/or 112 (4-8) SPCH 102* (4)

Basic Courses

BAT 102* (4)

Core Courses

BUSE 101*, 111*, 112*, 210*,
211*, 213, 214, 215,
and 220* (28)

Second Year

General Education**

PSYC 201, 303, and 305 (11);
or BAT 200, 201, or 205 (4)

Basic Courses

ACCT 221 (4)

BA 303 (4)

ECON 200 (4)

LEGS 301 (4)

Core Courses

BUSE 230*, 240*, 311, 312,
321, and 401* (21) BUSE 314 (1-3)

ASSOCIATE OF APPLIED SCIENCE

Two-year, career-oriented curricula also exist leading to the Associate of Applied Science degree. These programs prepare students for immediate employment in area communities and elsewhere, and also may be transferred to similarly oriented baccalaureate degree programs.

Usually, general education group requirements are not part of the curriculum. Those general education courses that are taken are in some related general education field (such as English, speech, psychology), in appropriately related disciplines (such as applied mathematics and science, physical science), and in specific major areas (such as environmental health, engineering technologies).

Applied Science programs offered at Firelands include:

Electrical/Electronics Engineering Technology

Environmental Health

Industrial Engineering Technology

Medical Record Technology

ASSOCIATE OF APPLIED SCIENCE REQUIREMENTS

This degree is awarded to a student who successfully completes one of the career-oriented programs listed below and the general associate degree requirements listed on page 8.

A. ELECTRICAL/ELECTRONICS ENGINEERING TECHNOLOGY

OPTION — ELECTRONICS ENGINEERING TECHNOLOGY

Gerard P. Colgan, *Program Director*

152 North Building, Firelands College, 433-5560, Ext. 275

Planned Program

Electronics engineering technicians are two-year college graduates with an Associate of Applied Science degree. Their academic preparation covers communication systems, computers, instrumentation and measurements, power and energy, materials processing and design and engineering graphics. Their educational program has prepared them for positions as engineering assistants, junior engineers, production technicians, instrument calibration and repair technicians, field service technicians, customer service representatives, and other entry-level positions in the electronic engineering field.

*Courses necessary for one-year clerical certificate.

**Consult adviser to choose appropriate courses if contemplating a baccalaureate degree.

First Year

General Education

ENG 111 and/or 112 (4-8)

Basic Sciences

AMS 111 (6)

PHYS 214 and 215 (10)

Core Courses

DESN 104 (4)

MFG 113, 114, and 218 (11)

ET 147 and 148 (10)

TECH 191 and 289 (9)

Second Year

General Education

SPCH 102 (4)

PSYC 201 (5)

SOC 101 (4)

One additional elective

Basic Sciences

CS 100 (4)

Core Courses

ET 244, 245, 247, 248, and
249 (22)

One additional elective

OPTION — ELECTRO-MECHANICAL TECHNOLOGY

Gerard P. Colgan, *Program Director*

152 North Building, Firelands College, 433-5560, Ext. 275

Planned Program

Electro-mechanical technicians are two-year college graduates with an Associate of Applied Science degree. Their academic program covers mechanics and strength of materials, design and engineering graphics, material processing, industrial equipment and controls, metallurgy, computers, instrumentation and measurements, and power and energy. Their educational program has prepared them for positions as engineering assistants, mechanical designers, junior engineers, production technicians, instrument calibration and repair technicians, field service technicians, customer service representatives, and other entry-level positions in the electro-mechanical technology field.

First Year

General Education

ENG 111 and/or 112 (4-8)

Basic Sciences

AMS 111 (6)

PHYS 214 and 215 (10)

Core Courses

DESN 104 (4)

MFG 113, 114, and 218 (11)

ET 147 and 148 (10)

TECH 191 and 289 (9)

Second Year

General Education

SPCH 102 (4)

PSYC 201 (5)

SOC 101 (4)

One additional elective

Basic Sciences

CS 100 (4)

Core Courses

DESN 243 (4)

MFG 215 (4)

ET 247 and 248 (10)

One additional elective

OPTION — COMPUTER ELECTRONIC TECHNOLOGY

Robert R. Speers, *Program Director*

235 North Building, Firelands College, 433-5560, Ext. 248

Planned Program

Computer electronic technicians are employed in business, government and industry. Their responsibilities include building, installing, maintaining, troubleshooting, and repairing computer systems. Due to the complex nature of computer program usage and customer relations, most companies seek new employees who have earned an Associate of Applied Science degree in electronics and who have a background in computer operation. The strong growth in demand for computer electronic technicians is expected to continue as business and industry increase productivity through automation.

First Year

Basic Courses

AMS 111 (6)

PHYS 214 and 215 (10); or

CS 101 (5)

MATH/PHYS equivalent

Core Courses

CS 104 (5) DESN 104 (4)
 ET 147, 148, and 249 (15)

Second Year**General Education**

ENG 111 and/or 112 (4-8) SPCH 102 (4)
 PSYC 201 (5) SOC 101 (4)

Core Courses

ET 244, 245, 247, 248, and
 249 (23)

B. ENVIRONMENTAL HEALTH TECHNOLOGY

M. P. Henning, III, *Program Director*

155 North Building, Firelands College, 433-5560, Ext. 278
 Planned Program

Environmental health technicians are two-year college graduates with an Associate of Applied Science degree. Their work includes sample collection, analysis and inspection of indoor and outdoor environments for the insuring of compliance with occupational, public health, safety and environmental quality laws. Career opportunities exist in private industry, environmental protection and occupational safety agencies, public health and county engineering departments, pollution analysis laboratories, private consulting firms, water and wastewater treatment facilities, and health care institutions. This program and all its options can be applied toward the baccalaureate degree in environmental health.

First Year**General Education**

ENG 111 (4) PSYC 201 (5)
 POLS 101 (4)

Basic Sciences

CHEM 111 or 121 (4-5) CHEM 112 or 122 (4-5)
 AMS 111 (6) PHYS 214 and 215 (10)

Core Courses

ENVT 141, 160, 226, 270, ENVT 280* and 281* (3)
 and 291 (19)

Second Year**General Education**

ENG 112 (4) SPCH 102 (4)
 SOC 101 (4)

Core Courses

ENVT 110, 121, 211, 222, 225, ENVT 223*, 272*, and 273 (8)
 226, 260, and 291 (34) ENVT 290* (1-4)

OPTION — BIO-MEDICAL SUPPORT

Gerard P. Colgan, *Program Director*

152 North Building, Firelands College, 433-5560, Ext. 275
 Planned Program

The one-year program is designed to retrain or upgrade people already working in this field. The two-year option is for people with no experience in this field. Program emphasis centers on fundamental communication, hazard recognition, bio-medical electronics, sanitation, and safety skills required to identify and prevent potential problems associated with health care facilities. Career opportunities include positions in hospitals, nursing homes, private consulting firms, and private industry. The bio-medical technician is capable of assisting hospital and nursing home personnel in setting up and running occupational health, employee and patient safety, and bio-medical electronics programs.

One-Year Certificate**General Education**

ENG 111 (4) SPCH 102 (4)

Basic Sciences

AMS 111 (6)

Core Courses

ET 147 and 148 (10) ET 290 (1-4)
 ENVT 160, 270, 272, 273, ENVT 290 (1-4)
 and 291 (17)

Two-Year Program**First Year****General Education**

ENG 111 (4) SOC 101 (4)

Basic Sciences

AMS 111 (6) CHEM 111 and 112 (8)
 PHYS 214 and 215 (10) TECH 152 (3)

Core Courses

ET 147 and 148 (10) ET 244 or 248 (5)
 ET 247 or 290 (4) ENVT 160, 270, and 291 (11)

Second Year**General Education**

ENG 112 (4) POLS 101 (4)
 SPCH 102 (4) PSYC 201 (5)

Basic Sciences

MRT 101* (5) TECH 218* (3)

Core Courses

ET 244 or 248 (5) ET 247 or 290 (4)
 ENVT 225, 260, 272, 273, ENVT 261* (3)
 and 291 (18)

OPTION — OCCUPATIONAL HEALTH AND SAFETY ANALYSIS

M. P. Henning, III, *Program Director*

155 North Building, Firelands College, 433-5560, Ext. 278
 Planned Program

The one-year program is designed to retrain or upgrade people already working in this field. The two-year option is for people with no experience in this field. The occupational health and safety technician conducts sample collection, analysis and inspection of the work environment to insure compliance with occupational health and safety laws for workers on the job. The technician is capable of assisting safety and industrial hygiene personnel in setting up and running an occupational health and safety program in private industry. Career opportunities include positions in private industry, pollution analysis laboratories, private consulting firms, and occupational safety and health agencies.

One-Year Certificate**General Education**

ENG 111 (4) SPCH 102 (4)

Basic Sciences

ENVT 122 (1) BAT 205 (4)
 TECH 218 (3) AMS 111 (6)

Core Courses

ENVT 225, 260, 271, 272, ENVT 261* (3)
 273, and 291 (20) ENVT 290 (1-4)

Two-Year Program**First Year****General Education**

ENG 111 (4) PSYC 201 (5)

Basic Sciences

CHEM 111, 112, and 213 (12) AMS 111 (6)
 PHYS 214 and 215 (10) ENVT 122 (1)

Core Courses

MFG 113 and 114 (8) ENVT 271, 272, and 291 (9)
 ENVT 290 (1-4)

Second Year**General Education**

POLS 101 (4) ENG 112 (4)
 SPCH 102 (4) SOC 101 (4)

Basic Sciences

DESN 104 (4) TECH 218 (3)

Core Courses

BAT 205 (4)
 ENVT 225, 260, 273, and ENVT 261* (3)
 291 (15)
 ENVT 290 (1-4)

*Optional electives

*Optional electives

OPTION — WATER AND WASTEWATER TREATMENT

M. P. Henning, III, *Program Director*
155 North Building, Firelands College, 433-5560, Ext. 278
Planned Program

The one-year program is designed to retrain or upgrade people already working in this field. The two-year program is for individuals with no experience in this field. The water and wastewater technician conducts sample collection analysis and inspection of the water for process control and to insure compliance with environmental quality laws. Career opportunities include positions in private industry, environmental protection agencies, county engineering departments, pollution analysis laboratories, private consulting firms, and water and wastewater treatment facilities.

One-Year Certificate

General Education

ENG 111 (4) SPCH 102 (4)

Basic Sciences

AMS 100 or MATH 110 (5) ACCT 221 (4)

ENVT 272 and 273 (6)

Core Courses

ENVT 110, 211, 222, 223,
and 291 (22)

Two-Year Program

First Year

General Education

ENG 111 and/or 112 (4-8) POLS 332 (4)

PHYS 214 and 215 (10)

Basic Sciences

CHEM 111 and 112 (8) AMS 111 (6)

Core Courses

ENVT 272 and 273 (6) ENVT 290 (1-4)

BAT 200 and 201 (8)

Second Year

General Education

PSYC 201 (5) SOC 101 (4)

SPCH 102 (4)

Core Courses

ENVT 110, 211, 222, 223, ENVT 290 (1-4)

and 291 (22) ET 147 (5)

ACCT 221 (4) TECH 191 (4)

OPTION — PUBLIC HEALTH

M. P. Henning, III, *Program Director*
155 North Building, Firelands College, 433-5560, Ext. 278
Planned Program

The one-year public health program prepares technicians capable of assisting sanitarians in public health departments. It is designed to retrain or upgrade people already working in this field. Program emphasis centers on fundamental communication, microbiology, infection control, hazard recognition, environmental and institutional health, sanitation, and safety skills required to identify and control current problems associated with the health field.

The one-year health care facility sanitation and safety program prepares technicians capable of assisting hospital and nursing home personnel in setting up and running occupational health, employee and patient safety, and infection control programs. Career opportunities include positions in public health departments, hospitals, nursing homes, and correctional institutions and facilities.

Public Health — One-Year Certificate

General Education

ENG 111 (4) SPCH 102 (4)

Basic Sciences

AMS 100 or MATH 110 (5) ENVT 273 (3)

Core Courses

ENVT 110, 121, 160, 225, 226, ENVT 223 or 280 (2)
270, 281, and 291 (26)

Health Care Facility Sanitation and Safety — One-Year Certificate

General Education

ENG 111 (4)

SPCH 102 (4)

Basic Sciences

AMS 100 or MATH 110 (5)

ENVT 110 and 122 (6)

BAT 205 (4)

Core Courses

ENVT 160, 225, 270, 272,
273, 281, and 291 (21)

Optional Elective

ENVT 290 (1-4)

OPTION — FOOD SERVICE MANAGEMENT — One-Year Certificate

M. P. Henning, III, *Program Director*
155 North Building, Firelands College, 433-5560, Ext. 278
Planned Program

This one-year program is designed to retrain or upgrade people already working in this field. In addition, it can be used by individuals who have graduated from food preparation programs at the high school level. Program emphasis centers on fundamental communication, management, sanitation, and safety skills required to supervise a food service operation. Career opportunities include positions in fast food operations, restaurants, institutional food operations, and vending food operations.

General Education

ENG 111 (4)

SPCH 102 (4)

Basic Sciences

AMS 100 or MATH 110 (5)

ENVT 122, 160, and 273 (7)

Core Courses

ENVT 280, 281, and 291 (7) BAT 200, 201, 204, and 205
(16)

C. INDUSTRIAL ENGINEERING TECHNOLOGY

Charles W. Lamp, *Program Director*
151 North Building, Firelands College, 433-5560, Ext. 266
Planned Program

Industrial engineering technicians are graduates of a self-paced program using audio-visual materials and textbooks as learning media. An instructor is available at scheduled times to guide, direct, and assist each student as the individual requires. The complete program consists of seven modules, approximately 1700 study hours, and 100 college credit hours. A student can take any module out of sequence depending upon previous education and experience. Career opportunities exist in industry, business, and institutions using manpower and equipment. Entry could be at the junior engineering level in positions dealing with analysis, job/methods study or operation, using man, material and machine.

Due to the individualized nature of the program, a detailed program sequence may be obtained from the program director.

D. MEDICAL RECORD TECHNOLOGY

Ellen F. Wachs, RRA, *Program Director*
305 West Building, Firelands College, 433-5560, Ext. 240
Planned Program

Medical record technicians are two-year college graduates who are eligible to sit for the national accreditation examination administered by the American Medical Record Association. After successful completion of the examination, the Accredited Record Technician (ART) is ready to work in the ever-expanding field of medical records. Career opportunities exist in private businesses, as well as in hospitals, extended care facilities, and government agencies. Their work includes all aspects of medical record keeping: filing; analyzing; coding; researching; preparing statistics; answering subpoenas and correspondence; indexing; transcribing; auditing; and collecting and presenting medical data, through the use of manual and computerized systems.

First Year

General Education

ENG 111 and/or 112 (4-8)

Basic Courses

MATH 115 (5)

BAT 205 (4)

Core Courses

MRT 100, 101, 102**, 111,
112, and 201 (22)

Electives*

BIOL 104, 331, and 332 (15)

Second Year

General Education

SPCH 102 (4)

PSYC 201 (5)

Basic Courses

MIS 200 (4)

Core Courses

MRT 201, 204, 211, and 212
(15)

SOC 101 (4)

LEGS 301 (4)

*Consult adviser for recommended electives in the program.

**Consult adviser for typewriting requirements.

GRADUATE COLLEGE

Elmer A. Spreitzer, *Associate Dean*

Winifred O. Stone, *Assistant Dean and Director of Graduate Admissions*

Thomas B. Cobb, *Assistant Vice Provost for Research and Director of Research Planning and Special Projects*

Ronald A. Fadley, *Assistant Dean and Director of Professional Development Program; Cooperative Education*

Ronald J. Etzel, *Director of Grants Development*

Larry D. King, *Field Coordinator for Cooperative Education Program*

Marian Ronan, *Assistant Director of Grants Development*

DEGREES AND MAJORS

The following degrees and majors are offered by the Graduate College:

Master of Accountancy

Accounting

Master of Arts

American studies*

Art

College student personnel*

Economics

English

French

Geography

German

Guidance and counseling

History

Journalism (minor only)

Mathematics

Philosophy

Social philosophy

Political science

Public administration

Popular culture

Psychology

Clinical

Developmental

Experimental

Industrial

Social

Sociology

Spanish

Speech and hearing therapy

Speech communication

Radio-television-film

Interpersonal and public communication

Speech pathology and audiology

Theatre

Master of Arts in Teaching

American studies

Biology

Chemistry

English

French

Geography

History

Mathematics

Physics

Political science

Sociology

Criminal justice

Spanish

Speech

Master of Business Administration

Master of Education

Business education

Career and technology education

College student personnel*

Educational administration and supervision

Elementary education

Guidance and counseling

*interdepartmental major

Health and physical education

Library and educational media

Reading

School psychology

Secondary education

Special education

Educable mentally retarded

Learning disabilities and/or behavioral disorders

Trainable mentally retarded

Master of Fine Arts

Art

Creative Writing

Master of Music

Conducting

Instrumental specialization

Music composition and theory

Music education

Music history

Music performance

Master of Organizational Development

Master of Rehabilitation Counseling

Master of Science

Applied statistics*

Biological sciences

Chemistry

Computer science

Geology

Physics

Specialist in Applied Biology

Immunohematology

Specialist in Education

Educational administration

Mathematics supervision

Reading

Doctor of Philosophy

American culture

Biology

Educational administration

English

History

Mathematics

Psychology

Clinical

Developmental

Experimental

Industrial

Social

Sociology

Speech communication

Communication disorders

Radio-television-film

Interpersonal and public communication

Theatre

EARLY ADMISSION

A senior at Bowling Green who has 150 hours of credit and an average of 3.0 or better in all work and who does not require full time in the senior year to complete the requirements for the undergraduate degree may be admitted to the Graduate College as an advanced undergraduate. The student may register for limited work for graduate credit provided he or she obtains approval in advance from the undergraduate dean and the dean of the Graduate College.

A senior in the last quarter of undergraduate work who has completed all requirements for graduation except the current registration and who has been declared acceptable for admission to the Graduate College following the receipt of the undergraduate degree is permitted to enroll in courses for graduate credit if the required undergraduate registration is not a full-course load. A student's enrollment under this provision is not to exceed 15 hours of undergraduate and graduate work combined.

For complete information regarding admission, assistantships and fellowships, and other matters relating to the Graduate College, consult the *Graduate Bulletin*.

DESCRIPTION OF COURSES

A ★ preceding a course number indicates that the course is offered both at Firelands and on the main campus.

A † preceding a course number indicates that the course is offered only at Firelands.

The Arabic number in parentheses immediately following the title of the course indicates the number of hours of credit.

The Roman numerals indicate the quarter the course is usually offered on the main campus with I indicating fall quarter; II, winter quarter; III, spring quarter; IV, summer quarter.

Courses numbered from 100 to 199 are ordinarily for freshmen or sophomores.

Courses numbered from 200 to 299 are for sophomores, juniors, or seniors and are not ordinarily open to freshmen.

Courses numbered 300 to 499 are ordinarily open to juniors or seniors but under exceptional circumstances may be taken by a student upon the recommendation of his or her adviser and with the written approval of the instructor of the course or the chair of the department concerned.

Courses which may be taken for graduate credit are listed in the *Graduate Bulletin*.

Accounting (ACCT)

★ **ACCT 221. INTRODUCTION TO ACCOUNTING I** (4) I, II, III, IV. Financial accounting concepts and methodology for accumulation of business data and reporting of economic activities; financial statements required for external reporting and underlying theory. Prerequisite: completion of mathematics requirements or concurrent registration in MATH 125 or MATH 231 or consent of instructor.

★ **ACCT 222. INTRODUCTION TO ACCOUNTING II** (4) I, II, III, IV. Continuation of 221. Enterprise analysis, cost determination and control, and accounting data for managerial decision making. Prerequisite: ACCT 221.

ACCT 320. SURVEY OF ACCOUNTING (6) I. For junior or senior wishing accelerated coverage of elementary financial and managerial accounting topics included in ACCT 221 and ACCT 222. Credit not granted for this course if ACCT 221 and ACCT 222 completed.

ACCT 321. INTERMEDIATE FINANCIAL ACCOUNTING (4) I, II, III, IV. Development and application of financial accounting concepts and generally accepted accounting principles; preparation of financial statements and accounting for current assets, valuation methods, recording procedures, alternative treatments and effect upon periodic income. Prerequisite: ACCT 222 or ACCT 320.

ACCT 322. INTERMEDIATE FINANCIAL ACCOUNTING (4) I, II, III, IV. Continuation of ACCT 321; emphasis on long-term assets, creditor and owner equities, accounting changes, and statement of changes in financial position. Prerequisite: ACCT 321.

ACCT 325. ACCOUNTING CONCEPTS FOR NON-BUSINESS STUDENTS (4) II, III. Accounting concepts and procedures, and their contribution to administrative process; enterprise analysis; relevant data, its uses and limitations. Not applicable to pre-professional core requirements. Not open to students who have completed ACCT 221, or ACCT 222, or ACCT 320.

ACCT 327. FINANCIAL ACCOUNTING (4) II. Structure and theory of financial accounting. Evaluation of existing conventions and procedures pertaining to external reporting. No credit toward accounting concentration. Prerequisite: ACCT 222 or ACCT 320.

ACCT 331. MANAGERIAL ACCOUNTING I (4) I, II, III, IV. Methods of providing data for management decisions, including cost-volume-profit analysis, budgeting, and relevant costs; standard, job-order, and direct costing. Prerequisite: ACCT 222 or ACCT 320.

ACCT 332. MANAGERIAL ACCOUNTING II (4) I, II, III, IV. Continuation of managerial accounting; capital budgeting, divisionalized firms; process cost accounting, and determination of cost behavior. Prerequisite: ACCT 331.

ACCT 337. MANAGERIAL ACCOUNTING (4) III. Accounting concepts as tools for administrative evaluation and control of business operations. Nature, use, and reliability of accounting data in decision-making process; cost analysis and profit planning. No credit toward accounting concentration. Prerequisite: ACCT 222 or ACCT 320.

ACCT 340. INCOME TAXES-INDIVIDUAL (2) I. Primarily for nonaccounting students, any college. Income tax concepts: exclusion, deductions, exemptions, capital gains and losses. Credit cannot be earned in both ACCT 441 and this course.

ACCT 351. AUDITING I (4) II, III, IV. Auditing procedures and practices of independent verification of financial records and reviews of operations as used by internal auditors and public accountants; nature of audit evidence; evaluation of internal controls. Prerequisite or corequisite: ACCT 322.

ACCT 395. READINGS FOR HONORS IN ACCOUNTING (1-4) I, II, III. For superior junior student; individual reading program to broaden knowledge of accounting literature of particular areas on semi-independent basis. Prerequisite: academic standing in upper 20 percent of student's class, approval of department.

ACCT 409. ACCOUNTING INTERNSHIP (1-4) I, III. Upon advance approval by program coordinator. Work experience and its evaluation in seminar must be completed in quarter following work experience. Not open to student with credit for any other 409 course in College of Business Administration.

ACCT 421. CONTEMPORARY FINANCIAL ACCOUNTING TOPICS (4) II, III. Accounting for pensions and leases, financial statement interpretation, measurement of social performance, Security and Exchange Commission impact, segmental reporting, interim financial statements, and accounting for inflation. Prerequisite: ACCT 322.

ACCT 422. ADVANCED FINANCIAL ACCOUNTING (4) I. Theory and practice for partnerships, business combinations and consolidations; branch and home office accounting; financial reporting of multinationals, including foreign currency translation. Prerequisite: ACCT 322.

ACCT 423. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (4) III. Methods and problems of controlling and reporting on resources (funds) segregated for conducting specific activities of nonprofit-seeking entities; budgetary control. Prerequisite: ACCT 222 or ACCT 320 or consent of instructor.

ACCT 424. FINANCIAL REPORTING FOR MULTINATIONAL BUSINESS FIRMS (3) III. Alternate years. Case study of worldwide accounting control and reporting problems, impact of cultural and legal constraints, and objective appraisal of various accounting principles and pronouncements. Text and cases. Prerequisite: ACCT 222 or ACCT 320 or consent of instructor.

ACCT 425. ACCOUNTING FOR HEALTH CARE SERVICES (4) Accounting as tool for planning and controlling operations; assets, costs (expenses), and revenues. Recommendations of American Hospital Association and Hospital Financial Management Association considered. Not open to accounting majors. Prerequisite: ACCT 222 or ACCT 320.

ACCT 429. PROBLEMS IN ACCOUNTING PRACTICE (4) II. Comprehensive review and integration of accounting theory and practice using problem method. Prerequisite: 24 hours of ACCT.

ACCT 439. ROLE OF THE FINANCIAL EXECUTIVE (4)

III. Role of accounting in management planning and control; profit centers, discretionary costs, budgeting, strategy, and evaluation of enterprise performance. Prerequisite: ACCT 332 or ACCT 337 or consent of instructor.

ACCT 441. FEDERAL TAXATION OF INDIVIDUALS (4) I,

II, IV. History, assumptions, and objectives of federal tax system. Determination of individual's taxable and nontaxable incomes, capital gains and losses, deductions and exemptions, and special provisions. Reporting requirements and determination of tax liability. Introduction to federal tax research methodology. Prerequisite: ACCT 322.

ACCT 442. FEDERAL TAXATION OF CORPORATIONS AND PARTNERSHIPS (4) II.

Determination of taxable income and reporting requirements of corporations, partnerships, and Subchapter S corporations. Application of federal tax laws to special problems of corporations including stock redemptions, capital structure, liquidation (partial and complete), corporate accumulations. Overview of federal taxation of gifts, estates, and trusts. Prerequisite: ACCT 441.

ACCT 452. AUDITING II (4) I. Types of auditor's opinions; auditing standards and ethics, professional responsibility and accountants' legal liability; statistical sampling as audit tool. Prerequisite: ACCT 351 or consent of instructor.

ACCT 491. STUDIES IN ACCOUNTING (1-5). On demand. Investigation in depth of selected areas or contemporary problems. May be offered individually as well as in classes, depending on student needs and nature of material. Prerequisite: approval of department.

ACCT 495. READINGS FOR HONORS IN ACCOUNTING

(1-5) I, II, III. For superior senior specializing in accounting; individual reading program to broaden knowledge of accounting literature on semi-independent basis. Prerequisite: academic standing in upper 20 percent of student's class, approval of the department.

Aerospace Studies (AERO)

AERO 101. AEROSPACE STUDIES (1) I. Organization of United States Air Force; mission, function, and employment of strategic offensive forces; leadership laboratory activities.

AERO 102. AEROSPACE STUDIES (1) II. U.S. Air Force doctrine; mission, function, employment of U.S. strategic forces; general purpose forces; mission, resources, operation of tactical air forces; capabilities of Army in limited war and counterinsurgency; Navy and Marine Corps; leadership laboratory activities.

AERO 103. AEROSPACE STUDIES (1) III. U.S. general purpose forces continued; structure and mission of aerospace support activities; leadership laboratory activities.

AERO 201. AEROSPACE STUDIES (1) I. Development of air power to 1941. Various concepts of employment of air power and factors which have prompted research and technological change; examples of impact of air power on strategic thought; leadership laboratory activities.

AERO 202. AEROSPACE STUDIES (1) II. Development of air power 1941-1965. Various concepts of employment of air power and factors which have prompted research and technological change; examples of impact of air power on strategic thought; leadership laboratory activities.

AERO 203. AEROSPACE STUDIES (1) III. Development of air power 1965 to present. Various concepts of employment of air power and factors which have prompted research and technological change; examples of impact of air power on strategic thought; leadership laboratory activities.

AERO 301. AIR FORCE MANAGEMENT (3) I. Integrated management course emphasizing individual as manager in Air Force milieu. Oral and written communicative skills; military writing and briefing formats; human behavior; individual behavior within formal organizational and historical development of management thought; leadership laboratory activities. Prerequisite: departmental approval.

AERO 302. AIR FORCE MANAGEMENT (3) II. AERO 301 continued. Air Force leadership, discussion of classical leadership theory, i.e., trait, situational, interactional, Likert, 3-D, etc. Planning, organizing, coordinating, directing, and controlling functions of management; emphasis on Air Force application; command and staff concept; leadership laboratory activities. Prerequisite: departmental approval.

AERO 303. AIR FORCE MANAGEMENT (3) III. AERO 302 continued. Junior officer as administrative leader; Air Force personnel system; use of civilian personnel in Department of Defense; management of change; organization and personal value conflicts; managerial strategies in changing world; leadership laboratory activities. Prerequisite: departmental approval.

***AERO 362. AEROSPACE STUDIES: FLIGHT INSTRUCTION PROGRAM (2) II.** Theory of flight; aerodynamics; federal aviation regulations; aviation map and chart interpretation; flight computer; radio communication procedures; aircraft operation; flying safety. Required of AFROTC category 1P student. Special departmental approval required.

***AERO 363. AEROSPACE STUDIES: FLIGHT INSTRUCTION PROGRAM (2) III.** Study and application of dead-reckoning and pilotage navigation; radio navigation; weight and balance; meteorology; aircraft performance and instruction in basic flight maneuvers. Required of AFROTC category 1P student. Special departmental approval required.

AERO 411. AEROSPACE STUDIES (3) I. National security forces in contemporary American society; armed forces as integral element of society; American civil-military relations and environmental context in which defense policy is formulated; leadership laboratory activities. Prerequisite: departmental approval.

AERO 412. AEROSPACE STUDIES (3) II. Formulation and implementation of U.S. defense policy; framework of defense policy including domestic and international system; evolution of U.S. strategy from Truman to Carter; leadership laboratory activities. Prerequisite: departmental approval.

AERO 413. AEROSPACE STUDIES (3) III. Strategy and management of conflict; arms interaction and control; limited war, insurgency, counterinsurgency, international terrorism. Initial Active Duty (IAD) Orientation. Leadership laboratory activities. Prerequisite: departmental approval.

AERO 461. AEROSPACE STUDIES: FLIGHT INSTRUCTION PROGRAM (2) I. Aircraft operation, flight safety, rules of the air, instruction in advanced flight maneuvers, navigation techniques. Required of AFROTC 1P student. Prerequisite: departmental approval.

Aerotechnology (AERT)

(See technology)

American Studies (AMST)

AMST 200. INTRODUCTION TO AMERICAN STUDIES (4) I, II, III. Introduction to American culture with emphasis on regional, ethnic, and economic aspects of the national experience as reflected in verbal, visual, and material artifacts. Culture theory and models used to examine selected topics and problems. Required of all American studies majors.

* Credit cannot be granted for both AERO 362-363 and AERT 141 (private pilot).

AMST 300. INTERPRETATIONS OF AMERICAN CULTURE (4) III. Topics and themes in American life developed through selected inter-disciplinary approaches and demonstrating interrelationships in American culture. Prerequisite: junior standing or consent of instructor. May be repeated.

AMST 400. SENIOR SEMINAR IN AMERICAN STUDIES (4) II, III. Inter-disciplinary seminar of interest to students focusing on American culture, society, institutions, or economics in their fields of study. Selected topics, themes, or problems in American culture approached from interdisciplinary perspective. May be repeated once if topics are different. Prerequisite: senior standing or permission of instructor.

AMST 490. TUTORIAL IN AMERICAN STUDIES (1-5) I, II, III. For students who wish to work independently in special interdisciplinary subject not covered by existing courses. Prerequisites: junior standing; description of proposal, signed by proposed tutor, to be submitted for approval by undergraduate adviser in American Studies prior to quarter in which tutorial begins.

Applied Mathematics And Science (AMS)

Where a course is listed as a prerequisite to another course, grade of 'C' or better is required. Exceptions are made only with consent of the instructor and the student's adviser.

- † **AMS 100. DEVELOPMENTAL MATHEMATICS** (5). Review of basic mathematics including whole numbers, fractions, decimals, square roots, ratio and proportion, metric systems, basic algebra, and plane geometry. Graded on an S/U basis only. Credit for this course does not apply toward graduation if credit for any other AMS or MATH course has been taken.
- † **AMS 111. MATHEMATICS-PHYSICS I** (6). Applications of algebra, graphical analysis, logarithms, geometry, and trigonometry; scientific notation, measurement units, computation aids and techniques. Laboratory emphasizes techniques of measurement and application of mathematical ideas. Two 2-hour lectures, two 2-hour laboratories. Prerequisite: AMS 100 or passing score on the mathematics placement exam, section I.

Applied Statistics (STAT)**

STAT 200. USING STATISTICS (4). Descriptive statistics, common statistical measures, interpretation and misinterpretations of statistical techniques (statistical sampling, regression analysis, design of comparative experiments). Does not count toward graduation credit for students receiving B.S. in B.A.

- ★ **STAT 211. ELEMENTARY STATISTICAL METHODS I** (4) I, II, III. Elementary probability, random variables, probability distributions, sampling, descriptive statistics, and decision theory. Prerequisite: MATH 125 or MATH 231; or, preferably, concurrent registration in MATH 125 or MATH 231; nonbusiness students without MATH prerequisite should obtain consent of instructor.
- ★ **STAT 212. ELEMENTARY STATISTICAL METHODS II** (4) I, II, III. Sampling distributions, estimation, hypothesis testing, regression, and correlation. Prerequisite: STAT 211.

***STAT 304. INTRODUCTION TO TIME SERIES ANALYSIS** (2) I. Analysis of trend, seasonal, and cyclical components in time series; forecasting; index numbers. Prerequisite: STAT 212 or consent of instructor.

† **STAT 306. INTRODUCTION TO SAMPLE DESIGN** (2) II. Sampling techniques: simple random, stratified, cluster, systematic, others. Prerequisite: STAT 212 or consent of instructor.

***STAT 308. INTRODUCTION TO DECISION THEORY** (2) II. Decision making under uncertainty; prior, posterior, and preposterior analysis. Prerequisite: STAT 212 or consent of instructor.

***STAT 311. INTRODUCTION TO REGRESSION AND DESIGN** (4) II, III. Regression analysis; topics in design of experiments. Prerequisite: STAT 212 or MATH 442 or consent of instructor.

***STAT 312. INTRODUCTION TO NONPARAMETRIC STATISTICS** (2) III. Nonparametric methods; sign test; rank test; chi-square tests. Prerequisite: STAT 212 or consent of instructor.

STAT 315. INTRODUCTION TO STATISTICAL INFERENCE (4) I. N-dimensional random variables and distributions; methods of estimation; hypothesis testing. Prerequisites: STAT 212 and MATH 231. Not open to students with MATH 442.

STAT 402. REGRESSION ANALYSIS (4) II. Linear, nonlinear, and multiple regression and correlation analysis. Prerequisite: STAT 315 or MATH 442 or consent of instructor.

STAT 404. TIME SERIES ANALYSIS (4) III. Stochastic stationary and nonstationary models; use in forecasting seasonal and nonseasonal discrete time series; fitting models to time series data. Prerequisite: STAT 315 or MATH 442 or consent of instructor.

STAT 406. SAMPLE DESIGN (4) I. Planning surveys; sampling as tool of scientific inference in management and research; bias and errors in sampling procedures; variances; sample size. Prerequisite: STAT 315 or MATH 442 or consent of instructor.

STAT 408. BAYESIAN DECISION THEORY (4) II alternate years. Statistical theory for decision making under uncertainty; integrating personal judgement with sample evidence via Bayes' Theorem; subjective probability, pay off and utility functions; prior, posterior, and preposterior analysis; value of sample information, decision rules, and optimal sample design; Bayesian inference versus classical inference. Prerequisite: STAT 315 or MATH 442 or consent of instructor.

STAT 410. EXPERIMENTAL DESIGN (4) III. Constructing statistical designs and analyzing resulting data; basic experimental design and analysis of variance. Prerequisite: STAT 315 or MATH 442 or consent of instructor.

STAT 412. APPLIED NONPARAMETRIC STATISTICS (4). Nonparametric approach to testing hypotheses: contingency tables, goodness of fit, procedures based on ranks. Prerequisites: STAT 315 or MATH 442 or consent of instructor.

STAT 414. STATISTICAL QUALITY CONTROL (4) I. Statistical process control; Shewhart control charts (variables and attributes); acceptance sampling (single, double, and sequential); Dodge-Romig Tables. Prerequisite: STAT 212, or MATH 442 and one additional STAT course, or consent of instructor.

STAT 491. STUDIES IN STATISTICS (1-5). On demand. Investigation of selected areas or contemporary problems. May be offered individually and in classes depending on student needs and nature of material.

Art (ART)

ART 100. EARLY ADMISSIONS ART PROGRAM (3) IV. Studio problems in drawing, design, and painting; foundational studio experiences and personal development of basic understandings, creative attitudes, and competencies in preparation for admission to college-level art major program. Six studio hours. Prerequisite: high school junior or senior status, portfolio, and recommendation from high school art teacher.

* Cannot be counted toward specialization in STAT.

** See also mathematics and statistics (MATH)

- ★ **ART 101. INTRODUCTION TO ART** (3) I, II, III. Basic principles of art form; experiences with elements of graphic expression; foundation course open to any nonmajor. Two lectures, two-hour studio.
- ★ **ART 102. TWO-DIMENSIONAL FOUNDATIONS I** (3) I, II, III. Introduction to and application of principles of art relative to creation of two-dimensional form organization. Required of all incoming art majors.
- ★ **ART 103. TWO-DIMENSIONAL FOUNDATIONS II** (3) I, II, III. Development of functional understanding and skill in use of time and value for rendering of space and pictorial accuracy. Prerequisite or corequisite: ART 102.
- ★ **ART 104. TWO-DIMENSIONAL FOUNDATIONS COMPOSITION** (3) I, II, III. Development and use of skills and concepts necessary to achieve high-level competence in graphic composition. Prerequisites: ART 102 and ART 103.
- ★ **ART 112. THREE-DIMENSIONAL FOUNDATIONS I** (3) I, II, III. Introduction to creative application of principles of art pertinent to three-dimensional form organization emphasizing development of 3-D aesthetic and utilitarian concepts. Studio experiences based on experimentation with transitory media. Prerequisite: ART 102.
- ART 113. DEVELOPMENT OF THREE-DIMENSIONAL CONCEPTS** (3) II, III. Development of sophisticated concepts, 3-D form organization, use of tools and equipment in production of 3-D form in permanent media. Prerequisite: ART 112.
- ★ **ART 145. WESTERN ART I** (3) I, II, III. History of ancient and early Medieval art. Open only to freshmen and sophomores.
- ★ **ART 146. WESTERN ART II** (3) I, II, III. History of Medieval, Renaissance, Baroque, and Rococo art. Open only to freshmen and sophomores.
- ★ **ART 147. WESTERN ART III** (3) I, II, III. History of art from mid-18th century to present.
- ★ **ART 205. BEGINNING DRAWING FROM LIFE** (3) I, II, III. Principles and practice in creative and structural drawing; concepts and techniques required for competent graphic expression. Six studio hours. Prerequisite: ART 104.
- ART 206. ADVANCED DRAWING FROM LIFE** (3) I, II, III. Advanced problems in drawing and composition. Six studio hours. Prerequisite: ART 205.
- ART 208. SPECIALIZED DRAWING TECHNIQUES** (3) I. Media required by specialized directions in art. Research in wide range of graphic materials. Prerequisite: ART 103.
- ★ **ART 211. INTRODUCTION TO GRAPHIC DESIGN** (3) I, II, III. Problems in graphic design with orientation towards advertising layout. Lettering, typography, illustration as integral elements of layout. Prerequisite: ART 101 or ART 102 or consent of instructor.
- ★ **ART 212. INTRODUCTION TO PRODUCT DESIGN** (3) I, II, III. Exploration problems emphasizing product design. Prerequisite: ART 104 or ART 112 or ART 113 or DESN 104 or consent of instructor.
- ★ **ART 213. INTRODUCTION TO ENVIRONMENTAL DESIGN** (3) I, II, III. Fundamentals, terminology, methods of communication and history of contemporary environmental design. Use of three-dimensional models as means of exploring design and presentation. Prerequisite: ART 112 or ART 113 or consent of instructor.
- ART 214. LETTERING AND TYPOGRAPHY** (3) I, II, III. Ideas communicated through typographic design. Typography as essential part of visual communications. Type indication and specification. Prerequisite: ART 211.
- ART 230. INTRODUCTION TO ART THERAPY** (3) I, II, III. Theories, practices, literature of the profession. Prerequisite: ART 102 or ART 103 or consent of instructor.
- ART 252. FOUNDATIONS FOR TEACHING VISUAL ARTS** (4) I, II, III. Lecture, laboratory, and field based experiences on teaching contexts and practices. Clinical analysis of instructional behavior and classroom interaction in art education settings. Prerequisite: sophomore standing.
- ART 261. BEGINNING SCULPTURE** (3) I, II, III. Creative arrangements of three-dimensional forms. Six studio hours. Prerequisite: ART 101 or ART 102. Lab fee.
- ART 263. BEGINNING CERAMICS** (3) I, II, III. Basic techniques in forming, decorating, and firing of pottery. One lecture, four studios. Prerequisites: ART 101 or ART 102 and ART 112. Lab fee.
- ART 265. WEAVING** (3) I, II, III. Fiber concepts as related to non-loom fiber techniques. Coiling, crochet, macrame, card weaving. Prerequisites: ART 102, ART 103, and ART 112. Lab fee.
- ART 277. BEGINNING PRINTS** (3) I, II, III. Basic graphic techniques and their potential in finished print. Six studio hours. Prerequisites: ART 104 and ART 205. Lab fee.
- ART 305. ADVANCED DRAWING FROM LIFE** (3) I, II, III. ART 206 continued. May be repeated to six hours.
- ART 311. ADVANCED DESIGN** (3). Offered on demand. Technical problems in design. Six studio hours. May be repeated to nine hours. Prerequisites: ART 211 and ART 212.
- ART 312. PRINT ADVERTISING** (3) I, II, III. Translating works and ideas into visual realities of mass communication; magazines, newspapers, brochures, billboards, other modes. Prerequisites: ART 211 and ART 214, or consent of instructor.
- ART 313. RENDERING** (3) I, II, III. Studio practice with professional techniques for presenting three-dimensional design on two-dimensional surface. Prerequisites: ART 212 and ART 213, or consent of instructor.
- ART 314. MODELING** (3) I, II, III. Visualization of product or space concept designs through models; use of all media to make transition from 2-D to 3-D. Prerequisites: ART 212 and ART 213, or consent of instructor.
- ★ **ART 320. ENAMELING ON COPPER** (3) I. Vitreous enameling techniques on metal; aesthetics and design for plaques, plates, and bowls. Students must preregister with instructor to order supplies. Six studio hours. May be repeated to six hours. Prerequisite: ART 104 or consent of instructor. Lab fee.
- ART 321. BEGINNING JEWELRY DESIGN** (3) I, II, III. Metals in jewelry making; emphasis on design and fabrication techniques — soldering, sawing, filing, chasing, repousse, and stone setting. One lecture and four studios. Prerequisites: ART 101 or ART 102, and ART 112. Lab fee.
- ★ **ART 322. JEWELRY DESIGN** (3) I, II, III. Centrifugal casting of silver, gold, brass, and bronze jewelry and related objects, using wax, plastic, and organic models. Six studio hours. Prerequisite: ART 321.
- ★ **ART 325. CREATIVE PHOTOGRAPHY** (3) I, III. Personal creative expression, individual perception, articulation, and interpretation. Six studio hours. Prerequisites: ART 101 or ART 102 or consent of instructor; JOUR 207 and JOUR 306 or VCT 282.
- ★ **ART 343. ART FOR ELEMENTARY TEACHERS** (3) I, II, III. Experience with art materials and problems to develop creative attitude; based primarily on needs of children. Not open to art majors. Not for arts and sciences credit. Prerequisite: ART 101 or ART 102. Lab fee.
- ART 352. ART EDUCATION IN ELEMENTARY SCHOOLS** (3) I, II. History and philosophy of art education. Principles, objectives, curriculum, instructional and resource materials, and methods in public school art. One lecture, two two-hour laboratories. Not for arts and sciences credit. Prerequisites: EDFI 302 and junior standing.

ART 353. ART EDUCATION IN SECONDARY SCHOOLS

(3) III. ART 352 continued. One lecture, two two-hour laboratories. Not for arts and sciences credit.

ART 361. SCULPTURE (3) I, II, III. Three-dimensional development in welding, metal casting, stone and wood carving, plastics, and plaster. Prerequisite: ART 261. Lab fee.

ART 363. CERAMICS (3) I, II, III. Form, color, and texture as basic factors of ceramic design; glazes and techniques of potter's wheel. Courses must be taken in number sequence. Six studio hours. Prerequisite: ART 263. Lab fee.

ART 364. ADVANCED CERAMICS (3) I, II, III. ART 363 continued. Six studio hours. Prerequisites: ART 102 and ART 363. Lab fee.

ART 365. WEAVING (3) I, II, III. Weaving on four-harness loom. Aesthetic and technical approach for achieving an expressive art form. Prerequisite: ART 102 and ART 103 and ART 112 or consent of instructor. Lab fee.

★ **ART 371. BEGINNING WATERCOLOR PAINTING** (3) I, II, III. Technical possibilities of watercolor as medium. Six studio hours. Prerequisites: ART 104 and ART 112.

★ **ART 372. ADVANCED WATERCOLOR PAINTING** (3) I, II, III. ART 371 continued: aesthetic and technical approach. Six studio hours. May be repeated to nine hours. Prerequisite: ART 371.

★ **ART 373. BEGINNING OIL PAINTING** (3) I, II, III. Possibilities and limitations of oil medium as means of achieving expressive art form. Six studio hours. Prerequisites: ART 104 and ART 112.

★ **ART 374. OIL PAINTING** (3) I, II, III. ART 373 continued; individual approach. Six studio hours. May be repeated to nine hours. Prerequisite: ART 373.

ART 377. PRINTS (3) I, II, III. ART 277 continued; additional graphic techniques. Six studio hours. May be repeated to nine hours. Prerequisite: ART 277. Lab fee.

ART 395. WORKSHOP ON CURRENT TOPICS IN ART (1-6) IV and/or selected quarters. Short-term workshop in studio or art education with content and emphasis as directed by needs and interests. One or two clock hours per credit depending on type. Prerequisite: as announced for each workshop.

ART 405. ADVANCED DRAWING (3) I, II, III. Conceptual imagery in drawings as completed visual statements; not exclusively concerned with human figure. May be repeated to nine hours. Prerequisite: ART 206.

ART 411. TELEVISION ADVERTISING DESIGN (3) I, II, III. Practical, professional approach to production of television commercials; conceptual thinking from rough ideas through finished storyboard. Prerequisites: ART 211 and ART 214 and RTVF 264, or consent of instructor.

ART 412. PACKAGING AND PROMOTION DESIGN (3) II, III. Package as attractive, informative product vehicle and its relationship to consumer purchase; value of promotional and collateral advertising and their relationship to product and advertising in general. Prerequisites: ART 211 and ART 214, or consent of instructor.

ART 413. CORPORATE IDENTITY DESIGN (3) II, III. Research and design of corporate identity program for existing or fictitious company. Number and type of design elements vary with company involved. Should be final course taken in graphic communications major.

ART 414. SPECIAL TOPICS IN DESIGN (3). On demand. In-depth study of a single topic or cluster of topics in design. May be repeated if topics are clearly different. Prerequisites: senior standing and consent of design area head.

ART 415. GLASSWORKING (3) I, III. Free-hand-blown glass; building of all needed equipment and technology for craftsman. Six studio hours. May be repeated to six credit hours. Prerequisite: ART 112.

ART 416. PRODUCT DESIGN AND DEVELOPMENT (3) I, II, III. Research, design and development of objects for mass production. Students are encouraged to do in-depth projects requiring the full quarter. May be repeated to nine hours. Prerequisites: ART 212 and ART 213, or consent of instructor.

ART 417. ENVIRONMENTAL DESIGN (3) I, II, III. Physiological sciences and use in contemporary environmental planning; space studied through projects dealing with types of space (proximate, communal, regional) and their functions. May be repeated to nine hours. Prerequisites: ART 213.

ART 418. SENIOR DESIGN PROBLEMS (3) II, III. Specific design problem chosen from actual situation. Research, design, presentation as final project. Prerequisite: senior standing.

ART 419. HISTORY OF DESIGN (3). Theory and history of graphic and industrial design from 1850 to present.

ART 421. ADVANCED JEWELRY DESIGN (3) I, II, III. Advanced problems in jewelry design; forging, repousse, engraving, double-casting, or enameling. Six studio hours. May be repeated to 12 hours. Prerequisites: ART 321 and ART 322. Lab fee.

ART 422. JEWELRY METALSMITHING (3) III. Traditional techniques of working both ferrous and nonferrous metals; emphasis on forging, raising, stretching, sinking, and hammer as primary tool. Six studio hours. May be repeated to six hours. Prerequisite: ART 421.

ART 423. JEWELRY ENAMELING (3) II. Specialized course for students wishing to combine champleve, cloisonne, and plique-a-jour enameling techniques with jewelry. Six studio hours. May be repeated to six hours. Prerequisite: ART 421.

ART 425. ADVANCED PROBLEMS IN CREATIVE PHOTOGRAPHY (3) I, III. Advanced-level assignments in creative photography; development of personal direction; communicative potential of resulting images. Six studio hours. May be repeated to nine hours. Prerequisite: ART 325.

ART 430. SPECIAL TOPICS IN ART HISTORY (3). On demand. Flexible format serving special areas of art history not covered by standard art history courses.

ART 440. MODERN ARCHITECTURE (3) III. Survey of 19th-20th century architecture in Europe and America.

★ **ART 441. AMERICAN ART I** (3) I. History of American art from colonial to Civil War; architecture, painting, and sculpture.

ART 442. AMERICAN ART II (3) II. History of American art from Civil War to present; architecture, painting, and sculpture.

ART 444. PRECLASSICAL ART (3) I. Art and archeology of preclassical Aegean world to end of Bronze Age; Minoan and Mycenaean art.

ART 445. GREEK ART (3) II. Art of Greece from Dark Ages through Hellenistic period; classical vase-painting, architecture, and sculpture.

ART 446. ART OF ETRURIA AND ROME (3) III. Etruscan and Roman sculpture, architecture, and painting from eighth century B.C. to fourth century A.D.

ART 447. EARLY CHRISTIAN AND BYZANTINE ART (3) II. Christian art to medievalization of Roman Empire in West; Byzantine art to fall of Constantinople in 1453.

ART 449. LATE MEDIEVAL ART (3) III. Romanesque and Gothic art.

ART 451. ART OF ITALIAN RENAISSANCE (3) I, II. Painting, sculpture, and architecture in Italy from 14th through 16th centuries.

ART 453. ART OF NORTHERN RENAISSANCE (3) I. Renaissance art in Germany, Flanders, Switzerland, France.

ART 454. BAROQUE AND ROCOCO ART (3) III. 17th and 18th century art in Italy, France, Spain, and low countries.

ART 455. ART OF 19th CENTURY (3) I. Art of 19th century in Europe from neoclassicism through impressionism.

ART 456. EARLY MODERN ART (3) II. Art of early modern period from post-impressionism to surrealism.

ART 457. RECENT MODERN ART (3) III. Art of recent past from surrealism to present.

ART 458. ART OF INDIA, S.E. ASIA, AND INDONESIA (3) I. Art and architecture of India, South East Asia, and Indonesia from earliest times to 20th century.

ART 459. ART OF CHINA AND CENTRAL ASIA (3) II. Art and architecture of China and Central Asia from earliest times to present.

ART 460. ART OF KOREA AND JAPAN (3) III. Art and architecture of Korea and Japan from earliest cultures to present.

ART 461. ADVANCED SCULPTURE (3) I, II, III. Six studio hours. May be repeated to 12 hours. Prerequisite: ART 361. Lab fee.

ART 463. ADVANCED CERAMICS (3) I, II, III. Six studio hours. May be repeated to nine hours. Prerequisite: ART 364. Lab fee.

ART 465. ADVANCED WEAVING (3) I, II, III. Fiber design, tapestry multiple harness, ikat and dye processes, leading to development of personal direction. May be repeated to six hours. Prerequisite: ART 365. Lab fee.

ART 466. RUG DESIGN AND WEAVING (3) II, III. Specialized design approaches and weaving techniques related to flat and pile rug work; procedures and potentials of different materials; emphasis on completing rug. May be repeated to six hours. Prerequisites: ART 265 and ART 365.

ART 471. ADVANCED WATERCOLOR (3) I, II, III. ART 372 continued. Six studio hours. May be repeated to 12 hours. Prerequisite: ART 372.

ART 473. ADVANCED OIL PAINTING (3) I, II, III. ART 374 continued. Six studio hours. May be repeated to 12 hours. Prerequisite: ART 374.

ART 477. ADVANCED PRINTS (3) I, II, III. ART 377 continued. Six studio hours. May be repeated to 12 hours. Prerequisite: ART 377. Lab fee.

ART 489. DESIGN INTERNSHIP (3-15) I, II, III, IV. Studio experience in chosen area design firm. Credit approved upon submission of portfolio and written description of experience in consultation with firm; elective hours only. Prerequisite: 15 hours of design, consent of the design staff.

ART 491. INDIVIDUAL STUDIES IN ART (1-4). Supervised individual problems in selected studio areas, art education, or art history research for student who has shown proficiency and marked degree of independence in other course work. May be repeated. Prerequisite: consent of director.

ART 495. WORKSHOP TOPICS IN ART EDUCATION (1-4) IV. Special topics and intensive group studies relative to special needs of visual arts teachers. Prerequisites announced for each workshop.

Arts and Sciences (A&S)

A&S 100. SEMINAR IN ARTS AND SCIENCES (2-8). Interdisciplinary studies in arts and sciences. Offered on sufficient demand or as area of study meeting new trends in arts and sciences. May be repeated by consent of dean of college. Prerequisite: consent of instructor.

★ **A&S 150. INTRODUCTION TO THE LIBRARY** (1) I, II, III. Basic research techniques for freshmen and sophomores including information retrieval, use of basic reference sources and materials. S/U credit only. Credit not applicable to library science majors and minors. All research for term paper although completed paper not required. (At Firelands, field trip to another library included. Completion of ENG 111 recommended.)

A&S 300. SEMINAR IN ARTS AND SCIENCES (2-8). Interdisciplinary studies in arts and sciences offered on sufficient demand or as area of study meeting new trends in arts and sciences. May be repeated by consent of dean of college. Prerequisite: consent of instructor.

Astronomy (ASTR)

ASTR 110. INTRODUCTION TO ASTRONOMY (4) III. Solar system, local stars and clusters, nebulae, galaxies, and universe; modern cosmogonies and limitations for existence and evolution of life; methods of celestial observations. Not open to student with credit for GEOL 110.

ASTR 201. MODERN ASTRONOMY (4) I, III. Emphasizes recent astronomical discoveries; space travel among planets, birth and death of stars, supernovas, pulsars, black holes, x-ray stars, radio galaxies, quasars, extra-galactic phenomena, and origin of universe; some observational work. Not open to student with credit for PHYS 201.

ASTR 212. THE SOLAR SYSTEM (3) II. Planetary, solar, and space science. The moon, solar interior and atmosphere, solar/terrestrial relations, planetary structure and atmospheres, comets, asteroids, meteoroids, space exploration, origin of solar system.

ASTR 305. LIFE IN THE UNIVERSE (3) I. Possibilities for life on other planets and other star systems, methods for communicating with other intelligent life, movement of human life into space.

ASTR 307. THE UNIVERSE (3) I. Our understanding of the universe as a whole; gravity, black holes, structure of space; other galaxies and the universal redshift; clusters of galaxies and other large-scale structure; big bang and steady state models; the three degree background radiation; first moments of creation.

ASTR 309. SPACE PHOTOGRAPHY (3) III. Techniques of astronomical observation and photography; basic optics and techniques of amateur astronomers; small telescopes and 35 mm format. Prerequisite: ASTR 201.

ASTR 403. STELLAR STRUCTURE AND EVOLUTION (4) III, alternate years. Basic data, stellar interiors, theoretical models; advanced evolutionary states; red giants, white dwarfs, neutron stars, supernovas, black holes. Prerequisites: PHYS 334 and consent of instructor. Not open to student with credit for PHYS 403.

ASTR 407. RECENT PROGRESS IN ASTRONOMY (4) III, alternate years. Stellar evolution, supernovas and pulsars, black holes, x-ray astronomy, structure of galaxies, radio galaxies, cosmology, quasars. Four lecture-discussions. Prerequisite: PHYS 334. Not open to student with credit for PHYS 407.

Biological Sciences (BIOL)

★ **BIOL 101. GENERAL BIOLOGY: MAN AND HIS ENVIRONMENT** (5) I, II, III. Basic ecology and present environmental problems of air, water, and land pollution; human reproduction, and population dynamics. Four one-hour lectures, one two-hour laboratory. Not accepted toward biology major or minor.

★ **BIOL 104. INTRODUCTION TO BIOLOGY** (5) I, II, III. Basic concepts. The cell, metabolism, genetics, reproduction, development, evolution. Four one-hour lectures, one two-hour laboratory. Not accepted toward biology major or minor.

BIOL 108. LIFE IN THE SEA (4) I. Shore and ocean environments, variety and adaptations of marine life. Observations of marine organisms in marine laboratory. Four one-hour lectures. High school biology recommended. Not accepted toward biology major or minor.

BIOL 110. HUMAN BIOLOGY (4) II, III. Basic human anatomy and physiology for nonmajors; how human organs work, singly and in systems, in health and disease; organ architecture as it relates to function. Four one-hour lectures.

★ **BIOL 201. CONCEPTS IN BIOLOGY** (5) I, II. Molecular and cellular biology and genetics. Three one-hour lectures, one three-hour laboratory, and one one-hour laboratory recitation.

★ **BIOL 202. CONCEPTS IN BIOLOGY** (5) II, III. Fundamental physiological systems and taxonomy and phylogeny of living organisms. Three one-hour lectures, two two-hour laboratories. Prerequisite: BIOL 201.

★ **BIOL 203. CONCEPTS IN BIOLOGY** (5) I, III. Darwinian evolution and population and community ecology. Three one-hour lectures, one three-hour and one two-hour laboratories. Prerequisites: BIOL 201 and BIOL 202.

★ **BIOL 220. INTRODUCTION TO HORTICULTURE** (5) I, III. Handling cultivated plants; plant growth, development, propagation, soil, pest control, light, temperature, and water. Prerequisite: BIOL 104 or consent of instructor.

BIOL 270. MARINE LABORATORY TECHNIQUES (2) I. Theories and techniques of maintaining and studying living marine animals in closed salt water systems; chemical and nutritional studies. One two-hour lecture-discussion and three hours of laboratory. Prerequisite: BIOL 202 and CHEM 121 or equivalent and consent of instructor.

BIOL 301. FIELD BIOLOGY (5) III, IV. Local organisms, identification and natural history. Two four-hour laboratories per week. Not open to arts and sciences biology majors except with consent of instructor. Prerequisite: five hours of BIOL.

BIOL 313. BACTERIOLOGY (5) I, II, III. Methods of isolation, culture, and identification; physiological and applied aspects of microorganisms. Three lectures, two three-hour laboratories. Prerequisite: one year of chemistry and two courses in BIOL.

BIOL 321. INSECT PESTS I (4) I. Biology, ecology, and control of urban and other pest insects and related arthropods; environmental effects and physiological actions of insecticides; methodology and equipment used in pest management. Three two-hour periods. Prerequisite: 15 hours of BIOL.

BIOL 322. VERTEBRATE PESTS II (4) II. Biology, ecology, and control of vertebrate pest animals; types and physiological action of avicides and rodenticides; epidemiology of zoonoses. Three two-hour periods. Prerequisite: 15 hours of BIOL.

★ **BIOL 331. HUMAN ANATOMY AND PHYSIOLOGY** (5) I, II, III. Skeletal, muscular, and nervous systems. Three one-hour lectures, two two-hour laboratories. Prerequisite: BIOL 104 or BIOL 202.

★ **BIOL 332. HUMAN ANATOMY AND PHYSIOLOGY** (5) I, II, III. Circulatory, respiratory, digestive, excretory, endocrine, and reproductive systems. Three lectures, two two-hour laboratories. Prerequisite: BIOL 104.

BIOL 343. PLANT BIOLOGY (4) I, II, III. Plant kingdom, morphology, evolution, and economic importance of major plant groups. Two one-hour lectures, two two-hour laboratories. Prerequisites: BIOL 104 or BIOL 201.

BIOL 350. GENERAL GENETICS (3) I, III. Theoretical and applied aspects of inheritance; molecular, chromosomal, and population levels of heredity. Three lectures. Prerequisite: BIOL 203 or consent of instructor.

BIOL 352. LABORATORY IN GENETICS (2) I, III. Materials, methods, and terminology of genetics through experiments, problems, and demonstrations. Two two-hour laboratories. Prerequisite or corequisite: BIOL 350.

BIOL 354. POPULATION AND COMMUNITY ECOLOGY (3) II. Theoretical modern ecology: population structure, growth and regulation; life history patterns; niche theory; competition; predator-prey interactions; community structure and diversity; succession. Two one-hour lectures and one two-hour discussion period. Prerequisites: BIOL 203 and MATH 131.

BIOL 401. INTRODUCTION TO BIOLOGICAL RESEARCH (3-6) I, II, III. For advanced student who has shown proficiency and marked degree of independence in work. Individual registration. Prerequisite: six quarters of BIOL and consent of instructor. May be repeated once, but only six hours may be applied toward major in biology.

BIOL 405. GENERAL PARASITOLOGY (5) I, II. Morphologic, taxonomic, economic, and other biological aspects of parasites. Four lectures, two two-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203 or consent of instructor.

BIOL 406. ARTHROPOD VECTORS AND PARASITES (5) III. Biology and identification of disease-carrying, toxic, and parasitic arthropods. Three lectures, two two-hour laboratories or equivalent in field trips. Prerequisite: BIOL 201 and BIOL 202 and BIOL 203.

BIOL 407. CELL PHYSIOLOGY (5) II. Physiology of cells and relationship of chemical events to cell structure. Three lectures, two three-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203 and organic chemistry.

BIOL 408. COMPARATIVE ANIMAL PHYSIOLOGY I (5) I alternate years. Nerve, muscle, and endocrine system function; water-ion regulation. Four one-hour lectures, one four-hour laboratory. Prerequisite: BIOL 201 and BIOL 202 and BIOL 203 and organic chemistry or BIOL 411 or BIOL 413.

BIOL 409. INVERTEBRATE ZOOLOGY I (5) I. Classification, biology, and physiology of lower invertebrates. Prerequisite: one course in BIOL or consent of instructor.

BIOL 410. INVERTEBRATE ZOOLOGY II (5) II. Classification, biology, and physiology of invertebrates through lower chordates. Prerequisite: one course in BIOL or consent of instructor.

BIOL 411. VERTEBRATE PHYSIOLOGY (5) I. Organ system function in vertebrate animals; emphasis on human. Four one-hour lectures, one three-hour laboratory. Prerequisite: BIOL 202 or equivalent and organic chemistry or consent of instructor. (Not recommended for students who have taken BIOL 332.)

BIOL 412. FIELD EXPERIENCE (9) IV. Biotic communities in central and western U.S.; observation, identification of plants, animals; quantitative field work. Individual problems arranged for advanced students to maximum of nine hours. Prerequisite: consent of instructor.

BIOL 413. COMPARATIVE ANIMAL PHYSIOLOGY II (5) II alternate years. Respiratory and circulatory systems, temperature regulation, and nutrition, correlated with environmental variables. Three one-hour lectures, two three-hour laboratories; term paper required. Prerequisites: BIOL 411 or BIOL 408 or equivalent and organic chemistry, and consent of instructor.

BIOL 414. INTRODUCTION TO PLANT TAXONOMY (5) III, IV. Elementary principles of plant identification; construction and use of keys and manuals. Three two-hour lecture-laboratories, one one-hour discussion. Prerequisite: BIOL 202 or consent of instructor.

BIOL 415. PLANT ANATOMY (5) II. Development and mature structure of principal tissues of vascular plants; basic patterns and modifications of root, stem, leaf, and flower. Three lectures, two two-hour laboratories. Prerequisite: BIOL 202 or BIOL 343 or consent of instructor.

BIOL 416. MORPHOLOGY OF VASCULAR PLANTS (5) III, alternate years. Comparative structure and evolutionary trends in vascular plants. Three lectures, two two-hour laboratories. Prerequisite: BIOL 202 or BIOL 343 or consent of instructor.

BIOL 417. PLANT PHYSIOLOGY I (5) I. Transport mechanisms, respiration, basic enzymology, mineral nutrition. Three lectures, one one-hour discussion, one two-hour laboratory; additional laboratory work arranged weekly. Prerequisite: 15 hours of BIOL and one year of laboratory chemistry.

BIOL 418. PLANT PHYSIOLOGY II (5) II. Photosynthesis, plant hormones, photoperiodism, environmental physiology. Three lectures, one one-hour discussion, one two-hour laboratory; additional laboratory work arranged weekly. Prerequisite: 15 hours of BIOL and one year of laboratory chemistry.

BIOL 419. ANIMAL HISTOLOGY (5) III. Microscopic anatomy of vertebrates, origin of tissues and organs, relation of structure to function. Three recitations, two three-hour laboratories. Prerequisite: Three quarters of BIOL.

BIOL 420. ANIMAL BEHAVIOR (4) III. Genetics, physiology, perception, learning. Reproduction, feeding, social use of space, evolution of social behavior. Two two-hour lecture-discussions, one three-hour laboratory. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203, or consent of instructor.

BIOL 421. MICROBIOLOGY (5) I, III. Eukaryotic and prokaryotic microbial life; methods of laboratory study, enrichment techniques, nutrition. Three lectures, two two-hour laboratories. Prerequisite: BIOL 313 or consent of instructor.

BIOL 422. TERRESTRIAL ECOLOGY (5) III. Plants and animals in relation to terrestrial environment. One four-hour and one three-hour lecture-laboratory, one two-hour discussion. Two weekend and one or more Saturday field trips required. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203 or consent of instructor.

BIOL 424. ALGOLOGY (5) III. Taxonomy, ecology, morphology of algae; emphasis on fresh water algae. Two one-hour lectures, two three-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203.

BIOL 425. LIMNOLOGY (5) I. Freshwater biology; detection, measurement, analysis of environmental factors. Three lectures, two three-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203.

BIOL 426. PATHOGENIC MICROBIOLOGY (5) III. Microorganisms causing common diseases of vertebrates. Three lectures, two two-hour laboratories. Prerequisites: BIOL 313 and BIOL 439. (BIOL 439 may be taken concurrently).

BIOL 431. VERTEBRATE EMBRYOLOGY (5) I. Developmental preliminaries of chordates; descriptive, comparative, and theoretical consideration of embryology. Three lectures, two three-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203 or permission of instructor.

BIOL 432. COMPARATIVE ANATOMY OF CHORDATES I (5) II. Organogenesis and histogenesis of vertebrates; evolutionary significance of structural and developmental changes and relationships among integumentary, skeletal, muscular systems. Three lectures, two three-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203 or permission of instructor. BIOL 431 recommended.

BIOL 433. COMPARATIVE ANATOMY OF CHORDATES II (5) III. Organogenesis and histogenesis of vertebrates; evolutionary significance of structural and developmental changes and relationships among circulatory, digestive, respiratory, excretory, reproductive, nervous, endocrine systems. Three one-hour lectures, two three-hour laboratories. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203 or permission of instructor. BIOL 431 and BIOL 432 recommended.

BIOL 434. PALEOBOTANY (5) III alternate years. Morphology, evolution, geological distribution of fossil plants. Three lectures, two two-hour laboratories, several field trips. Prerequisites: BIOL 416 and GEOL 105 or consent of instructor.

BIOL 435. ENTOMOLOGY (5) I. Identification, structural adaptations, physiology, ecology, importance, and control of insects. Three lectures, two three-hour laboratories or equivalent in field trips. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203.

BIOL 436. CYTOLOGY (5) I. Cells, tissues, subcellular elements of organisms. Structure, biochemistry, function correlated. Three lectures, two three-hour laboratories. Prerequisite: 15 hours of BIOL.

BIOL 438. ENDOCRINOLOGY (5) III. Physiological, metabolic actions of selected endocrine glands; emphasis on mammals. Three one-hour lectures; one four-hour laboratory. Prerequisite: BIOL 408, or BIOL 411 and organic chemistry, or consent of instructor. Biochemistry recommended.

BIOL 439. IMMUNOBIOLOGY (5) III. Immune state in animals; laboratory work on detection and quantitation of antigens and antibodies. Three lectures, two two-hour laboratories, one one-hour laboratory-recitation. Prerequisite: 200-level BIOL sequence. Genetics and biochemistry recommended.

BIOL 440. AQUATIC VASCULAR PLANTS (5) I. Techniques and methods of collecting, preserving, identifying aquatic vascular plants; biology, ecology, geography of flora with respect to history since glaciation, recent changes, geographic affinities. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203. BIOL 414 recommended.

BIOL 443. MICROBIAL PHYSIOLOGY (5) I. Chemical composition, metabolic activities of microorganisms; function in life of organism. Three one-hour lectures, two three-hour laboratories. Prerequisite: BIOL 313 and CHEM 307 or consent of instructor.

BIOL 446. SCANNING ELECTRON MICROSCOPY (5) III. Theory and practice of scanning electron microscopy applicable to biological research; critical point drying, sample coating techniques, transmitted electron detection, energy-dispersive x-ray microanalysis, computational analysis of data. Prerequisite: permission of instructor. BIOL 436 recommended.

BIOL 447. MICROBIAL GENETICS (3) I. Molecular biology and genetic phenomena of bacteria and bacteriophage; mutagenesis and recombination. Three one-hour lectures. Prerequisites: six quarters of BIOL or consent of instructor. General genetics or biochemistry recommended.

BIOL 449. CYTOGENETICS (4) I. Structure, organization and behavior of chromosomes; their function, modification, evolution, and role in speciation. Three one-hour lectures and one two-hour laboratory. Prerequisite: BIOL 350 or BIOL 352 or consent of instructor.

BIOL 451. EVOLUTION (3) II. Historical evidence for evolution. Modern evolutionary theory: modes of selection, speciation, complex adaptations; micro-evolutionary trends. Two lectures, one two-hour discussion. Prerequisites: BIOL 203 and BIOL 350.

BIOL 470. SPECIAL TOPICS IN BIOLOGY (3-5) I, II, III. Selected topics or subject areas in life sciences.

Prerequisite: permission of instructor; maximum of three enrollments, each with different topic, permitted for credit.

BIOL 472. ICHTHYOLOGY (5) III alternate years. Major groups of freshwater fishes: systematics, life histories, physiology, ecology, evolution, biogeography. Three lectures, one two-hour and one three-hour laboratory. Saturday and/or weekend field trips required.

Prerequisite: BIOL 203.

BIOL 473. MAMMALOGY (5) I alternate years. Identification, natural history, evolution, zoogeography, physiology, ecology, behavior. Two lectures and two three-hour laboratories or equivalent field work.

Prerequisite: BIOL 201 and BIOL 202 and BIOL 203 or consent of instructor.

BIOL 474. MARINE BIOLOGY (5) II. Biological and oceanographic analysis of marine environment; ecology, populations, laboratory techniques. Two two-hour discussions, three hours of laboratory arranged.

Prerequisite: one year of chemistry, invertebrate zoology, and consent of instructor.

BIOL 475. MARINE BIOLOGY FIELD TRIP (2) II. Field trip to marine environment and research station with collection and study of living marine fauna and flora; oceanographic analysis of environments, study on sea-going vessel using trawl and dredge; discussions of marine research by laboratory staff; tour of fishery station. Prerequisite: BIOL 474. Preregistration discussion and transportation fee required.

BIOL 476. HERPETOLOGY (5) III alternate years. Amphibians and reptiles; identification, habits, distribution, behavior. Three lectures, one two-hour and one three-hour laboratory or equivalent field work, all-day and/or weekend field trip in spring. Prerequisites: BIOL 201 and BIOL 202 and BIOL 203.

BIOL 477. ORNITHOLOGY (5) III. Structure, physiology, behavior, ecology, migration, identification in field and lab. Three lectures, one two-hour and one three-hour laboratory or equivalent field work, all-day or week-end field trip in May. Prerequisite: 15 hours of BIOL.

***BIOL 478. PARASITES OF MARINE ANIMALS** (9) IV.

***BIOL 479. MARINE MICROBIOLOGY** (7) IV.

***BIOL 480. PROBLEMS IN ADVANCED HISTOLOGY** (4-9) IV.

***BIOL 481. MARINE BOTANY** (6) IV.

***BIOL 482. MARINE ZOOLOGY** (6) IV.

***BIOL 484. MARINE INVERTEBRATE ZOOLOGY** (9) IV.

***BIOL 485. MARINE VERTEBRATE ZOOLOGY AND ICHTHYOLOGY** (9) IV.

***BIOL 488. TOPICS IN MARINE SCIENCE** (6-9) IV. Offered by Gulf Coast Research Laboratory staff. May be repeated for different titled topics as approved by marine science coordinator.

***BIOL 489. SPECIAL PROBLEMS IN MARINE SCIENCE** (3-9) IV.

BIOL 490. SEMINAR (2) I, II, III. Review of literature to acquaint student with research techniques and important work in various fields of biology. May be repeated, but only four hours may be applied toward a biology major. Prerequisite: 15 hours of BIOL.

BIOL 491. READINGS IN BIOLOGICAL SCIENCES (2) I, II, III. Independent readings on topics of current or specialized interest in biology. Not more than four hours may be applied to major or minor requirements. Prerequisite: permission of instructor.

Business Administration (BA)

BA 100. SEMINAR IN BUSINESS ADMINISTRATION (2-8). Interdisciplinary studies in business administration. New trends or concepts. Prerequisite: consent of instructor.

* **BA 102. INTRODUCTION TO BUSINESS** (4) I, II, III. Market competition and change, nature and central role of management, our business environment. Open only to freshmen or sophomores.

BA 300. SEMINAR IN BUSINESS ADMINISTRATION (2-8). Interdisciplinary studies in business administration; new trends or concepts in business administration. Prerequisite: consent of instructor.

* **BA 303. BUSINESS COMMUNICATIONS** (4) I, II, III, IV. Effective communication in writing business letters, data sheets, and reports. Building oral and written communication skills for use in business and public organizations.

BA 325. ORGANIZATION AND STRUCTURE OF HEALTH CARE SERVICES INDUSTRY (4) I. Broad dimensions and areas of health care services organizations; internal administrative processes; perspectives on comprehensive health planning and policy administration; environmental linkages to community health services agencies.

BA 390. INTRODUCTION TO MULTINATIONAL BUSINESS (4) III. Environment encountered by U.S. enterprises engaged in business abroad; business practices and policies for foreign operations; international organizations.

BA 403. GOVERNMENT AND BUSINESS (4). Relations of all echelons of government to businessman; instances where government controls, regulates, or otherwise exercises influence on actions of businessman.

BA 405. BUSINESS POLICY AND STRATEGY (4) I, II, III. Resource allocation through administrative policies; cases and simulation games. Prerequisites: senior standing and prior completion of all 300-level business core courses.

BA 406. NEW ENTERPRISE FORMATION (4). Entrepreneurship; systematic decision making in small companies.

BA 409. BUSINESS INTERNSHIP (1-4) I. Not open to student with credit for other 409 courses in College of Business Administration. Program must be approved in advance by college internship program director. Work experience must be completed within last year prior to graduation.

BA 429. HEALTH CARE INTERNSHIP (8) I, II, III, IV. Specific internship in one of following areas of administration: hospital, nursing home, governmental health agency, voluntary health agency, health research project administration, and mental hospital administration; minimum of 20 credits of elective studies aimed at preparing for internship selected with advice and consent of adviser.

BA 440. MANAGEMENT OF INTERNATIONAL OPERATIONS (3). Accounting, finance, marketing, management, and operational policies; practices and strategies appropriate for foreign operations. Selected case studies for specific problems. Prerequisite: BA 390.

BA 450. CURRENT ISSUES IN INTERNATIONAL BUSINESS (3). Specific problems confronting international business firms. Case studies and individual research on current problems for class presentation and discussion. Prerequisite: BA 440.

BA 491. STUDIES IN BUSINESS ADMINISTRATION (1-4). On demand. In depth study of selected areas. Offered to individual student on lecture basis or in seminar depending on student needs and nature of material. May be repeated to eight hours.

* Marine science courses are taught at affiliated Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Complete descriptions of courses available from Mrs. C. Groat, marine science coordinator.

BA 492. STUDIES IN INTERNATIONAL BUSINESS ADMINISTRATION (1-4). On demand. Independent study on subjects related to international business not otherwise offered in curriculum. Reading, report, and research assignments. May be repeated to eight hours.

BA 495. READING FOR HONORS IN BUSINESS ADMINISTRATION (1-4) I, II, III. Supervised, independent program of reading and study. Prerequisites: 3.0 accumulative GPA and consent of department.

Business Education (BUSE)

- ★ **BUSE 101. BUSINESS MATHEMATICS (4)** I, II, III. Mathematics of finance, merchandising, business ownership, taxation, and consumer problems.
- ★ **BUSE 111. BEGINNING TYPEWRITING (3)** I, II, III. Touch typewriting for personal and business use. Four class periods. Not open to students with high school credit in typewriting.
- ★ **BUSE 112. INTERMEDIATE TYPEWRITING (3)** I, II, III. Development of typewriting skill through improvement of technique and special problems. Four class periods. Prerequisite: one year of high school typewriting or BUSE 111.
- ★ **BUSE 210. ADVANCED TYPEWRITING (3)** I, II, III. Typewriting problems and projects; office production standards. Four class periods. Prerequisite: two years of high school typewriting or BUSE 112.
- ★ **BUSE 211. OFFICE REPROGRAPHICS (3)** I, II, III. Uses, limitations, costs of modern office reproduction equipment, and processes including development of skill in use. Prerequisite: BUSE 112.
- ★ **BUSE 213. BEGINNING SHORTHAND THEORY (3)** I. Gregg Diamond Jubilee shorthand. Not open to students with high school credit in shorthand.
- ★ **BUSE 214. INTERMEDIATE SHORTHAND THEORY (3)** II. Continuation of Gregg shorthand; transcription. Prerequisite: one year of high school shorthand or BUSE 213.
- ★ **BUSE 215. ADVANCED SHORTHAND THEORY (3)** III. Speed in recording dictation and transcribing. Prerequisite: two years of high school shorthand or BUSE 214.
- ★ **BUSE 220. DATA PROCESSING I (3)** I, II, III. Machine processing of data using various makes of small calculators—printing and electronic. Class periods plus assigned laboratories.
- ★ **BUSE 230. RECORDS MANAGEMENT (3)** I, II, III. Paperwork control from creation of records to final storage or destruction. Micrographics, automatic information systems, forms management.
- ★ **BUSE 240. BUSINESS PROBLEMS OF THE CONSUMER (4)** I, II, III. Relationship of business practices to consumer activities. Ways of improving standard of living through developing competencies in buying, using goods and services, money management.
- ★ **BUSE 311. DICTATION AND TRANSCRIPTION (3)** I. Dictation at high speed rates; emphasis on rapid, accurate transcription. Prerequisites: BUSE 112 and BUSE 215.
- ★ **BUSE 312. ADVANCED DICTATION AND TRANSCRIPTION (3)** II. Technical vocabulary, short cuts to speed dictation, office-style dictation. Prerequisite: BUSE 311.
- ★ **BUSE 313. SPECIALIZED DICTATION AND TRANSCRIPTION (3)** III. Shorthand and transcription competency in working with specialized areas — medical, legal, scientific. Prerequisite: BUSE 311.

★★ The student with two semesters of high school typewriting and/or shorthand should enroll in BUSE 112 and/or BUSE 214. The student with four semesters of high school typewriting and/or shorthand should enroll in BUSE 210 and/or BUSE 215. Those who choose to enroll in lower level classes will not receive credit toward graduation.

★ **BUSE 314. INTERNSHIP IN BUSINESS EDUCATION (1-3)** I, II, III. Supervised experience in local offices or businesses. Forty clock hours of work required for each hour of college credit. May be repeated to three hours. No more than one hour of credit may be granted for work in any one office or business firm.

★ **BUSE 321. DATA PROCESSING II (3)** I, II, III. Punch card and other input-output media in electronic data processing; computers and computer programming. Three class periods plus assigned laboratories.

★ **BUSE 322. DATA PROCESSING III (3)** II. Electronic data processing and programming. Use of computer to process business and educational data. Three class periods plus assigned projects. Prerequisite: BUSE 321.

★ **BUSE 335. OFFICE SYSTEMS AND PROCEDURES (3)** II. Analysis of information flow in office and role of worker in office function. Considering current problems involving office employees.

BUSE 352. BASIC BUSINESS IN SECONDARY SCHOOLS (3) I, III. Principles, objectives, instructional and resource materials, and methods in basic business subjects. C/F hrs: 32.

BUSE 354. ACCOUNTING AND DATA PROCESSING IN SECONDARY SCHOOLS (3) I, II. Principles, objectives, and methods of teaching accounting and data processing; review of accounting cycle. C/F hrs: 26.

BUSE 356. SHORTHAND AND SECRETARIAL PRACTICE IN SECONDARY SCHOOLS (2) II, III. Principles and methods of teaching shorthand, transcription, and secretarial practice. C/F hrs: 20.

BUSE 358. TYPEWRITING AND CLERICAL PRACTICE IN SECONDARY SCHOOLS (2) II, III. Principles and methods of teaching typewriting and clerical practice. C/F hrs: 30.

BUSE 364. DISTRIBUTIVE EDUCATION IN SECONDARY SCHOOLS (4) I, III. Methods of teaching vocational and relative subject matter in distributive education.

BUSE 370. OWA ORGANIZATION AND PROGRAM COORDINATION (4) II. Prepares prospective Occupational Work Adjustment teachers to initiate and operate OWA program. Program background, philosophy, organization, coordination, student selection, youth organization.

★ **BUSE 401. SECRETARIAL ADMINISTRATION (5)** I, II, III. Procedures, skills, and knowledges for administrative-level positions. Prerequisites: BUSE 210 and BUSE 215.

BUSE 441. CONSUMER ECONOMICS IN THE SCHOOLS (4) II. Need for consumer economics. Organization and integration of consumer economics in school programs. Consumer and business background information.

BUSE 455. ADMINISTRATIVE MANAGEMENT (3) III, IV. Administrative/office function in business organization; application of management principles to effective work control; work design, information handling, and data processing.

BUSE 461. DEVELOPMENT OF INSTRUCTIONAL MATERIALS IN DISTRIBUTIVE EDUCATION (4) I, II. Methods for developing teaching materials in distributive education.

BUSE 462. COORDINATION IN COOPERATIVE VOCATIONAL EDUCATION (4) I, III. Coordination in high school, post-high school, and adult education programs for vocational business and distributive education. C/F hrs: 14.

BUSE 463. COMMUNITY PLANNING IN ADULT VOCATIONAL EDUCATION (4) II, III. Identification of adult needs, procedures for organizing and promoting adult programs, selecting and training adult leaders, and financing adult programs.

BUSE 465. DEVELOPMENT AND ADMINISTRATION OF VOCATIONAL EDUCATION (4) I, II. Vocational education as sponsored by federal, state, and local legislation.

BUSE 466. INTENSIVE VOCATIONAL BUSINESS AND OFFICE EDUCATION (4) I, II. Program construction, organization, improvement, implementation, evaluation, and development of program guides. C/F hrs: 34.

BUSE 467. WORKSHOP IN BUSINESS AND DISTRIBUTIVE EDUCATION (2-4) IV. Areas of current interest to teachers in business and distributive education. Possible areas include youth with special needs, cooperative education, vocational education for adults, intensive programs, post-secondary programs, and technical programs.

BUSE 470. OWA CURRICULUM AND INSTRUCTIONAL PROCEDURES (4). Curriculum development for vocational work experience programs including instructional learning packets, course of study, teaching methodology, and techniques.

BUSE 491. STUDIES IN BUSINESS AND DISTRIBUTIVE EDUCATION (1-4) I, II, III. Offered on individual, seminar, or lecture basis. Treatment of selected areas in depth depending on student needs and nature of material. May be repeated to six hours. Prerequisite: consent of instructor.

Business Management Technology (BAT)

Courses in business management technology are not applicable to baccalaureate programs in the College of Business Administration, with the exception of BAT 102. Where appropriate, students with credit in business management technology courses may attempt to earn credit-by-examination in similar College of Business Administration courses.

BAT 102. INTRODUCTION TO BUSINESS TECHNOLOGY (4). Introduction to business technical process including structure of business and functions of marketing, production, finance, personnel, technical processes of control, and responsibilities of business.

† **BAT 200. PRINCIPLES OF MANAGEMENT** (4). Basic concepts, principles, processes, and functions of management and administration. Current practices and problems used for illustration. Topics grouped for instructional purposes under planning, organizing, leading and controlling. Objectives and decisions emphasized throughout. Three hours of lecture, three hours of field study.

† **BAT 201. PERSONNEL MANAGEMENT** (4). How management obtains, develops, utilizes and maintains an effective work force; recruitment and selection of employees, testing, interviewing, counseling, developing and compensating employees; emphasis on complex human problems that arise in work situations and alternative ways of coping with them. Three hours of lecture, three hours of field study.

† **BAT 203. PRODUCTION MANAGEMENT** (4). Analyze operations of the firm. Fundamentals of production, design of production systems, operations, coordination and control of production activity, major analytical tools for management. Three hours of lecture, three hours of field study. Prerequisite or corequisite: STAT 211.

† **BAT 204. MARKETING** (4). Introduction to organization, management, and practice of marketing by business firms. Three hours of lecture, three hours of field study.

† **BAT 205. HUMAN RELATIONS IN BUSINESS** (4). Analysis of reactions, interactions, attitudes and activities of individuals and groups within goal-seeking organization; leadership, morale, goal-oriented behavior; business relationships among supervisors and subordinates, informal groups, business and its clients;

emphasis on development of effective human relations. Three hours of lecture, three hours of field study.

† **BAT 206. SYSTEMS, STANDARDS AND WORK DESIGN** (4). Effective utilization and measurement of human effort; systems, planning theory, process analysis, methods analysis, job design. Three hours of lecture, three hours of field study. Prerequisite: BAT 203.

† **BAT 207. BUSINESS FINANCE** (4). Funds allocation and acquisition process of the firm; financial planning, capital budgeting, capital structure, long-term and short-term financing. Three hours of lecture, three hours of field study. Prerequisite: ECON 202, ACCT 221.

† **BAT 290. STUDIES IN BUSINESS** (1-4). Business study projects, seminars and techniques for its use; execution-time program structures; segmentation; overlays; report generation; table handling; sorting; file handling techniques; comparison with other languages; COBOL standards. Prerequisite: CS 102 or MIS 200.

Chemistry (CHEM)

Students who take two courses in any one of the following groups may not receive credit for both: CHEM 100, 111, 121, 131; CHEM 122, 132; CHEM 123, 133; CHEM 112, 306, 343; CHEM 213, 308, 445; CHEM 321, 450; CHEM 352, 431. Students should secure more detailed descriptions of these courses from department office, 110 Hayes Hall.

★ **CHEM 100. INTRODUCTION TO CHEMISTRY** (4) I, II, III, IV. Non-laboratory examination of basic chemical concepts and role of chemistry in modern society. For students not majoring in sciences. (Course may not be counted toward chemistry major or minor.) Four lectures.

★ **CHEM 111. ELEMENTARY CHEMISTRY** (4) I, II, IV. Three lectures, one three-hour laboratory. Not accepted toward chemistry major or minor unless followed by CHEM 122. Prerequisite: two years of high school science and/or mathematics. MATH 090 recommended.

★ **CHEM 112. ELEMENTARY ORGANIC CHEMISTRY** (4) II, III. Chemistry of carbon compounds. Three lectures, one three-hour laboratory. Not accepted toward chemistry major or minor. Prerequisite: CHEM 111.

★ **CHEM 121. GENERAL CHEMISTRY** (5) I, II, IV. Chemistry sequence for students majoring in sciences or premedical programs or liberal arts. Three lectures, one recitation, three hours of laboratory. Prerequisite: high school chemistry, algebra, and geometry, or CHEM 111. (No credit for graduation for CHEM 111 and CHEM 121.)

★ **CHEM 122. GENERAL CHEMISTRY** (5) II, III, IV. CHEM 121 continued. Three lectures, one recitation, three hours of laboratory. Prerequisite: "C" or better in CHEM 121 or CHEM 131; CHEM 111 with consent of instructor.

★ **CHEM 123. GENERAL CHEMISTRY** (5) III, IV. CHEM 122 continued, including qualitative analysis. Three lectures, one recitation, three hours of laboratory. Prerequisite: CHEM 122.

CHEM 131. GENERAL CHEMISTRY (5) I: General chemistry sequence for well-prepared student. Three lectures, one recitation, three hours of laboratory. Prerequisite: high school chemistry and consent of instructor. Corequisite: MATH 130 or MATH 131.

CHEM 132. GENERAL CHEMISTRY (5) II. CHEM 131 continued. Emphasis on quantitative procedures in laboratory. Three lectures, one recitation, three hours of laboratory. Prerequisite: "C" or better in CHEM 131.

CHEM 133. GENERAL CHEMISTRY (5) III. CHEM 132 continued. Three lectures, six hours of laboratory. Prerequisite: CHEM 132.

CHEM 200. BIO-ORGANIC CHEMISTRY AND YOU. (3) I, II, III. Nonmathematical course for nonscientist in topics of contemporary concern; effect of chemistry on society, chemistry for the consumer, regulatory agencies, chemistry in the news, other topics in organic and

biochemistry. Not open to freshmen; not accepted toward chemistry major or minor. No CHEM prerequisites.

★ **CHEM 201. QUANTITATIVE CHEMICAL ANALYSIS** (5) I, II, III, IV. Theory and practice of quantitative analytical procedures; volumetric and gravimetric methods. Three lectures, six hours of laboratory. Prerequisite: CHEM 123.

★ **CHEM 213. ELEMENTARY BIOCHEMISTRY** (4) III, IV. Chemistry of life-support molecules. Three lectures, one three-hour laboratory. Not accepted toward chemistry major or minor. Prerequisite: CHEM 112 or CHEM 306.

★ **CHEM 306. ORGANIC CHEMISTRY** (5) I, II, IV. Not accepted toward chemistry major. Four lectures, three hours of laboratory. Prerequisite: CHEM 123 or CHEM 133.

★ **CHEM 308. BASIC BIOCHEMISTRY** (4) II, III. Structure, chemical, physical, and metabolic properties of bioorganic molecules. Four lectures. Prerequisite: CHEM 306, BIOL 104 and CHEM 201 recommended.

★ **CHEM 309. ELEMENTARY BIOCHEMISTRY LABORATORY** (2) II, III. Basic biochemical analysis. One lecture and one three-hour laboratory. Prerequisite or corequisite: CHEM 308 or CHEM 445.

CHEM 310. CHEMICAL INFORMATION (1-3) III. Communication and retrieval of scientific information; planning original laboratory investigation. May be repeated for total of three credit hours. Prerequisite: 20 hours of CHEM. Reading knowledge of German recommended.

CHEM 313. SPECIAL TOPICS IN CHEMISTRY (1-3) I, II, III, IV. Specific topics in chemistry of current interest. Offering may be initiated by either students or faculty. Not applicable toward minimum 48-hour major or 30-hour minor. May be repeated with different topics.

CHEM 321. SURVEY OF INSTRUMENTAL ANALYSIS (4) II. Elementary instrumental methods of analysis for biology and med-tech majors. Two lectures, six hours of laboratory. Prerequisites: CHEM 201 and PHYS 216 or PHYS 233.

CHEM 343. ORGANIC CHEMISTRY (4) I, IV. Structure and reactivity of organic substances. Four lectures. Prerequisite: CHEM 123 or CHEM 133.

CHEM 344. ORGANIC CHEMISTRY (5) II, IV. Continuation of CHEM 343. Four lectures, one four-hour laboratory. Prerequisite: "C" or better in CHEM 343.

CHEM 345. ORGANIC CHEMISTRY (5) III, IV. Continuation of CHEM 344. Four lectures, one four-hour laboratory. Prerequisite: CHEM 344.

CHEM 352. PHYSICAL CHEMISTRY (5) III. For student whose program does not require full-year course. Four lectures, one three-hour laboratory. Prerequisites: CHEM 201 and MATH 130. MATH 131 recommended. Prerequisite or corequisite: PHYS 215 and PHYS 216, or PHYS 233.

CHEM 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive course on selected topics. Typically, an all-day or similar concentrated time format used. May be repeated if topics differ. Does not apply toward first 30 hours of minor or first 48 hours of major.

CHEM 402. NUMERICAL APPLICATIONS IN PHYSICAL SCIENCES (1-3) II. Application of computational techniques to contemporary problems in physical sciences. Taught jointly as GEOL 402 and PHYS 402. Prerequisites: MATH 131, knowledge of fortran programming, and CHEM 123 or CHEM 133.

CHEM 413. SPECIAL PROBLEMS (1-3) I, II, III, IV. Independent study and research. Three to nine hours of laboratory, one half-hour conference each week. Not applicable toward the minimum requirements of major or minor. Prerequisite: consent of instructor, 29 hours of CHEM, or consent of department, 2.5 minimum overall GPA. May be repeated, but no more than nine hours credit may be applied toward degree.

CHEM 431. PHYSICAL CHEMISTRY (3) I, IV. Gases and thermodynamics. Three lectures. Prerequisite: CHEM 201, and MATH 232, and either PHYS 233 or both PHYS 215 and PHYS 216.

CHEM 432. PHYSICAL CHEMISTRY LABORATORY (2) I. Two three-hour laboratories; introduction to advanced laboratory techniques; glassblowing, statistical analysis, physical and electronic measurements; thermodynamics. Prerequisite or corequisite: CHEM 431.

CHEM 433. PHYSICAL CHEMISTRY (4) II, IV. CHEM 431 continued. Electrochemistry, kinetics, quantum phenomena. Four lectures. Prerequisite: CHEM 431.

CHEM 434. PHYSICAL CHEMISTRY LABORATORY (1 or 2) II. One or two three-hour laboratories. Modern instrumentation applied to problems in kinetics and electrochemistry. Includes NMR, IR, and mass spectroscopy. Prerequisite: CHEM 432.

CHEM 435. PHYSICAL CHEMISTRY (4) III, IV. CHEM 433 continued. Quantum chemistry, atomic and molecular structure. Four lectures. Prerequisite: CHEM 433.

CHEM 436. PHYSICAL CHEMISTRY LABORATORY (1 or 2) III. One or two three-hour laboratories. Approximately half devoted to application of laboratory computers to chemical systems. Prerequisite: CHEM 434.

CHEM 440. THEORETICAL ORGANIC CHEMISTRY (4) III. Theoretical concepts of structure and reactivity of organic compounds and reactive intermediates. Molecular orbital theory, stereochemistry. Four lectures. Prerequisite: CHEM 345. Prerequisite or corequisite: CHEM 435.

CHEM 441. ADVANCED ORGANIC LABORATORY (3) II. Modern laboratory and instrumental techniques and methods applied to synthesis and characterization of organic and organometallic substances. One lecture, six hours of laboratory. Prerequisite: CHEM 345.

CHEM 445. GENERAL BIOCHEMISTRY (4) II. Structure, function, chemical and physical properties and kinetics of bioorganic molecules. Four lectures. Prerequisites: CHEM 345 and either CHEM 352 or both CHEM 431 and CHEM 432, or permission of instructor.

CHEM 446. BIOCHEMISTRY LABORATORY (2) II. Experimental techniques in biochemistry. One lecture, three hours of laboratory. Prerequisite or corequisite: CHEM 445.

CHEM 447. GENERAL BIOCHEMISTRY (4) III. Metabolism, energetics, and regulation of bioorganic molecules. Four lectures. Prerequisite: CHEM 445.

CHEM 449. ADVANCED BIOCHEMISTRY LABORATORY (3) III. Research techniques. One lecture and two three-hour laboratories. Prerequisite: CHEM 446 or permission of instructor.

CHEM 450. THEORY AND PRACTICE OF ANALYSIS (5) I. Chemical instrumentation; electroanalytical methods. Three lectures, six hours of laboratory. Prerequisites: CHEM 434 and CHEM 435.

CHEM 451. INSTRUMENTAL METHODS OF ANALYSIS (4) III. Optical and chromatographic methods. Two lectures, six hours of laboratory. Prerequisites: CHEM 434 and CHEM 435.

CHEM 453. ENVIRONMENTAL CHEMISTRY (3) III. Sources, reactions, transport, and fates of chemical species in water, soil, and air environments. Three lectures. Prerequisites: CHEM 133 (or CHEM 201), CHEM 306 (or CHEM 345), and CHEM 352 (or PHYS 215).

CHEM 460. ADVANCED INORGANIC CHEMISTRY (4) II. Theoretical inorganic chemistry: chemical bonding, stereochemistry, acid-base chemistry, periodicity, nonmetal chemistry. Four lectures. Prerequisite: CHEM 431. Corequisite: CHEM 433.

CHEM 461. ADVANCED INORGANIC CHEMISTRY (3) III. Transition-metal chemistry, organometallic chemistry, bioinorganic chemistry. Three lectures. Prerequisite: CHEM 460. Corequisite: CHEM 435.

CHEM 467. ENVIRONMENTAL TOXICOLOGY (4) I. Three lectures, one three-hour laboratory. Limited to students in the environmental toxicology planned program or by permission of instructor.

CHEM 468. ENVIRONMENTAL TOXICOLOGY (5) II. CHEM 467 continued. Three lectures, two three-hour laboratories. Prerequisite: CHEM 467.

CHEM 469. ENVIRONMENTAL TOXICOLOGY (5) III. CHEM 468 continued. Three lectures, two three-hour laboratories. Prerequisite: BIOL 468 or CHEM 468.

CHEM 483. ADVANCED TOPICS IN CHEMISTRY (1-4) I, II, III, IV. Rigorous study of specific topic of current interest. Not applicable toward minimum 48-hour major or 30-hour minor. May be repeated with different topics. Prerequisite: CHEM 345 or consent of instructor.

College Student Personnel (CSP)

CSP 480. SEMINAR IN COLLEGE STUDENT PERSONNEL (1-4). On demand. Analysis of issues, practices, and trends in post-secondary student personnel work.

Communication Disorders (CDIS)

(See speech communication)

Computer Science (CS)

- ★ **CS 100. COMPUTER BASICS (4) I, II, III, IV.** Computer technology and related social issues. Students do programming using on-line terminals and BASIC language. Hardware, software, applications in diverse areas. Problems concerning computerized services, data banks, governmental controls. Not open to students with credit in another CS or MIS course. Credit not applicable toward major or minor in computer science. Credit not allowed for both CS 100 and MIS 200.
- ★ **CS 101. INTRODUCTION TO PROGRAMMING (5) I, II, III, IV.** Algorithms; basic elements of Fortran; introduction to computer organization; structured programming techniques. Several programming assignments required. For students without extensive programming experience. Not open to students with credit for another CS or MIS course.
- ★ **CS 103. FORTRAN PROGRAMMING (4) I, II, III, IV.** Fortran for students with extensive programming experience. Algorithms; structured programming techniques. Several programming assignments required. Prerequisite: prior programming experience in any computer language. Not open to students with credit for CS 101.
- ★ **CS 104. PROGRAMMING TECHNIQUES (5) I, II, III.** Advanced topics in Fortran programming. Programming projects in several areas. Elementary data structures. Interactive computing. Second higher-level language. Prerequisite: CS 101 or CS 103.
- ★ **CS 180. INTRODUCTION TO PROGRAMMING (1-4).** Programming techniques in particular language. Credit not applicable toward major or minor requirements. May be repeated up to total of four hours, with consent of department.
- CS 200. COMPUTERS AND SOCIETY (2) II.** Protection of personal privacy, cashless society, legal guidelines and controls. Impact of computers on various professions. Not a programming course. Prerequisite: CS 101 or CS 103. Not open to students with credit for CS 100 or MIS 200.

- ★ **CS 201. ASSEMBLER LANGUAGE PROGRAMMING (4)** I, IV. Basic computer organization; data representations; addressing techniques. Assembler language of typical large computer. Prerequisite: CS 101 or CS 103.
- ★ **CS 202. SYSTEMS PROGRAMMING (4) II.** Continuation of assembler language introduced in CS 201. Principles of programming: subroutines and macros, recursion and reentrancy. I/O concepts. Large implementation project required. Prerequisites: CS 104 and CS 201.
- ★ **CS 210. LOGICAL FOUNDATIONS OF COMPUTING (4)** III. Boolean algebras and minimization techniques. Turing algorithms. Graph theory and combinatorics. Propositional and predicate calculus. Prerequisite: CS 104.
- CS 260. BUSINESS PROGRAMMING PRINCIPLES (4) I, II.** Assembler language programming; hardware/software technology. Does not apply to major or minor in computer science. Not open to student with credit for CS 201. Prerequisite: MIS 200.
- CS 305. DATA STRUCTURES (4) II.** Basic concepts of data organization; storage systems and structures; storage allocation and collection; searching and sorting. Use of PASCAL language. Prerequisite: CS 202 or consent of instructor.
- CS 306. PROGRAMMING LANGUAGES (4) III.** BNF description of programming languages. Significant features of existing programming languages. Structure and comparison of languages for numeric and non-numeric computation. Languages studied typically include ALGOL, COBOL, PL/1, SNOBOL, and APL. Prerequisites: CS 104 and CS 201.
- CS 307. COMPUTER ORGANIZATION (4) III.** Components of digital computer systems: flip-flops, registers, adders, memory devices. Computer system organization: control structure, micro orders, addressing, interrupts, I/O. Prerequisites: CS 202 and CS 210.
- CS 313. ELEMENTARY MATHEMATICAL LOGIC (4).** Propositional and predicate logic; nature of mathematical proof; applications to mathematics and computer science. Not open to students with credit for MATH 313.
- CS 315. INTRODUCTION TO AUTOMATA (4).** Automata as formal systems. Turing Machines, computable and recursive functions, propositional and predicate calculi, decision problems and generative grammars. Prerequisite: CS 210 or MATH 339. Not open to students with credit for MATH 315.
- CS 350. NUMERICAL METHODS (4) I.** Solutions of equations. Error analysis. Simultaneous linear and non-linear equations. Numerical differentiation and integration. Interpolation, and least squares approximations. Prerequisites: CS 104 and MATH 231.
- ★ **CS 360. TECHNIQUES OF COBOL PROGRAMMING (4)** I, IV. COBOL programming language and techniques for use: debugging techniques; report generation; table handling; sorting; file handling techniques; comparison with other languages; COBOL standards. Prerequisite: CS 101 or CS 103 or CS 260.
- CS 363. JOB CONTROL LANGUAGE (2) III.** Executive languages for OS/370 and TOPS-20. Use of language processors and utility functions. Designation of tape and disk files. Catalogued and in-stream procedures. Prerequisite: CS 202 or CS 360.
- ★ **CS 390. PRACTICUM IN COMPUTER SCIENCE (1-4).** Primarily for students working in industrial internship program. Written report required. Oral presentation may be requested. Available for S/U credit only. May be repeated to total of four hours credit. Prerequisite: consent of department.
- CS 400. READING FORTRAN (1).** FORTRAN programming as practiced in natural sciences. Prerequisites: MATH 131 and three-course sequence in BIOL, CHEM, PHYS, or GEOL. Does not apply to major or minor in computer science.

CS 406. PROGRAMMING LANGUAGE DESIGN (4) I. Design concepts for programming languages. Structured programming. Preprocessors. Languages for special application areas. Current topics in language design. Prerequisite: CS 306.

CS 407. ADVANCED COMPUTER ORGANIZATION (4) III. Evolution of computer systems. Detailed studies of several selected computer organizations; comparison of functional components and overall designs. Prerequisite: CS 307.

CS 408. OPERATING SYSTEMS (4) I. Structure of operating systems. Physical input-output, buffering, interrupt processing. Memory, processor, device, information management; resource management interdependencies. Prerequisites: CS 306 and CS 307.

CS 409. LANGUAGE TRANSLATION SYSTEMS (4) II. Design and operation of various types of translators (assemblers, interpreters, compilers, decompilers, macro processors). Lexical and syntactic analysis, code generation and optimization, self-compilers, bootstrapping, tracing and debugging aids. Prerequisite: CS 306.

CS 410. FORMAL LANGUAGE THEORY (4) II. Various types of languages (context-sensitive, context-free, finite-state). Discussion of recognition devices such as pushdown automata, linear bounded automata, and Turing Machines. Some topics of current interest. Prerequisite: CS 210 or MATH 339.

CS 420. ARTIFICIAL INTELLIGENCE AND HEURISTIC PROGRAMMING (4) Definition of heuristic vs. algorithmic methods. Topics from areas of game playing programs, theorem proving, pattern recognition, question answering programs, natural language processing, music composition by computers. Programming project or report usually required. Prerequisite: CS 305.

CS 425. COMPUTER GRAPHICS (4) III. Graphic I-O devices: plotter, CRT, plasma panel, light pen, etc.: vector generation; display processors; transformation; clipping and windowing; hidden line removal; interactive techniques; data structures for graphics; various display algorithms and graphic languages. Prerequisites: CS 305 and MATH 332 or consent of instructor.

CS 428. MINI-MICRO COMPUTERS (4) I, II. Architecture of mini and micro computers; programming techniques; operating systems and translators. Detailed study of specific minicomputer and microcomputer systems. Prerequisite: CS 202.

CS 429. MINI-MICRO APPLICATIONS (4). Comparison of various mini-microcomputer systems; selection configuration, and evaluation of computers and peripherals; interfacing considerations; case studies of applications; communication protocols. Project generally required. Prerequisites: CS 408 and CS 428.

CS 440. OPTIMIZATION TECHNIQUES (4) I. Linear programming, game theory, PERT, network analysis; duality theory and sensitivity analysis; applications. Computer programs written to implement several techniques. Prerequisites: CS 104 and MATH 231.

CS 442. TECHNIQUES OF SIMULATION (4) III. Principles of simulation and application of several simulation languages to both continuous and discrete systems. Prerequisites: CS 104 and MATH 231.

CS 451. NUMERICAL ANALYSIS (4) I. Development of numerical methods which are efficient, accurate, and suitable for high-speed digital computation; zeros of polynomial and transcendental functions; numerical differentiation and integration; solution of linear systems by direct and iterative methods. Selected algorithms programmed for solution on computer. Prerequisites: CS 101 or CS 103, and MATH 332. Not open to students with credit for MATH 451.

CS 452. NUMERICAL ANALYSIS (4) II. Matrix inversion; computation of eigenvalues and eigenvectors of matrices; least squares, trigonometric, and Chebyshev approximation; numerical solution of initial value and boundary value problems in ordinary differential equations. numerical solution of partial differential equations. Prerequisites: CS 101 or CS 103, and MATH 337. Not open to students with credit for MATH 452.

CS 462. DATABASE MANAGEMENT SYSTEMS (4) II, IV. Concepts of organizing data into integrated database. Hierarchical, network, and relational approaches studied. Prerequisite: CS 306 or CS 360.

CS 490. INDEPENDENT PROJECT (1-4). Readings and/or computer implementations in area of interest to individual student. Does not apply to major or minor in computer science. May be repeated up to eight hours.

CS 492. SPECIAL SEMINAR IN COMPUTER APPLICATIONS (1-8). Prerequisite: consent of instructor. May be repeated up to total of eight hours.

Computer Science Technology (CST)

† **CST 171. TERMINAL OPERATIONS (1).** Remote entry terminals, operating-systems, commanding line, operation of local terminal interpreter related to operation of RJE; visits to operation site. Prerequisite: enrollment in CST program and permission of instructor. Hours arranged.

† **CST 221. SYSTEMS AND PROCEDURES I (3).** Analysis of business information systems; designing a business system, file design, audit controls. Techniques for implementing basic systems such as principles of flowcharting, systems documentation, and business forms control. Two hours of lecture, two hours of laboratory. Prerequisite: knowledge of a programming language.

† **CST 231. TECHNIQUES OF RPG PROGRAMMING (2).** Basic elements in programming techniques using the RPG II language. Further work on file organization, table look-up, JCL, chaining, records, and error analysis. A problem-oriented language to maximize time spent on solutions rather than machine characteristics.

† **CST 232. SYSTEMS AND PROCEDURES II (4).** Continued study of principles in the design and application of data processing systems in business. Analysis of cost controls, operations research, and the integrated management information system. Two hours of lecture, four hours of laboratory. Prerequisite: CST 221 and CS 360, or consent of instructor.

Construction Technology (CONS)

(See technology)

Criminal Justice (CRJU)

CRJU 210. INTRODUCTION TO CRIMINAL JUSTICE (4) I, III. Philosophical, historical, operational aspects of criminal justice agencies and processes in a framework of social control in a democracy. Crime and corrections problems and response of criminal justice agencies to them.

CRJU 220. LAW ENFORCEMENT ORGANIZATION AND ADMINISTRATION (4) I. Organization and management applied to law enforcement agencies. Theoretical and practical aspects of management factors such as organization, decision making, values, human relations, power. Prerequisite or corequisite: CRJU 210.

CRJU 230. CRIMINAL INVESTIGATIONS (4) I. Investigator's role in criminal investigations. Theoretical considerations of that role in relation to other police activities. Techniques of preservation of evidence,

sources of information, processes of specialized investigations. Prerequisite or corequisite: CRJU 210.

CRJU 240. POLICE-COMMUNITY RELATIONS (4) I. Relationships between community and police; attitudes and perceptions; emphasis on human relations methodology in improving relationships; role of police administrator. Prerequisites or corequisites: CRJU 210 and SOC 101 and PSYC 201.

CRJU 250. TECHNICAL ASPECTS OF LAW ENFORCEMENT (5) III. Theoretical and practical problems relating to technical aspects of law enforcement: preservation of physical evidence, fingerprinting, firearms identification, photography, polygraph, stress analysis, handwriting analysis. Emphasis on problems relating to use of these techniques rather than on mechanical aspects of the techniques. Prerequisite: for law enforcement majors, CRJU 210; for others, permission of instructor.

CRJU 310. CRIMINAL LAW (4) I. Elements of proof in crimes of frequent concern in law enforcement; emphasis on principal rules of criminal liability, penal statutes, current case law. Law of arrest, search and seizure; theoretical consideration of criminalization of conduct and appropriateness of criminal sanctions. Prerequisite: for law enforcement majors, CRJU 210; for others, permission of instructor.

CRJU 480. SPECIAL PROBLEMS IN CRIMINAL JUSTICE (4) III. Consideration and evaluation of selected policies and practices in criminal justice field, both law enforcement and corrections; attempt to integrate criminal justice field and to focus on common problems and concerns. Problems of theoretical and practical nonconvergence. Individual research interests explored, formalized, reported. Required of all CRJU majors. Prerequisites: senior standing and completion of 25 hours of CRJU courses, or equivalent.

CRJU 490. INDEPENDENT STUDY IN CRIMINAL JUSTICE (1-5) I, II, III, IV. Student designs and carries out study or special project in area of interest. Prerequisite: consent of program director. May be repeated.

CRJU 491. PRACTICUM (2-16) I, II, III, IV. Experience working in law enforcement and/or correction agency under supervision. Emphasis on practice rather than observation. May be repeated. Prerequisite: permission of program director. Graded S/U.

CRJU 493. PRACTICUM SEMINAR (1) I, II, III, IV. Analysis of issues, problems, areas of continued learning needs, and proposed methods of intervention in various areas of criminal justice. Corequisite: CRJU 491. Graded S/U.

Design Technology (DESN)

(See technology)

Economics (ECON)

ECON 100. DEVELOPMENT OF THE AMERICAN ECONOMY (4) I, II, III. Study from colonial times to present to provide perspective for understanding current economic problems. How Americans lived, changes in population and income distribution, agriculture, industry, technological change, labor, transportation, money and banking, foreign trade, role of government.

★ **ECON 200. INTRODUCTION TO ECONOMICS (4) I, II, III.** Alternative economic goals: economic growth, full employment, price stability, fair income distribution, economic security, economic freedom, consumer sovereignty, efficiency. Recommended for students taking only one ECON course. Not open to students required to complete ECON 202.

★ **ECON 202. PRINCIPLES OF ECONOMICS (4) I, II, III.** Demand and supply; price theory; product and factor

markets; income distribution; comparative systems; current problems and public policy. Recommended before ECON 203. Prerequisite: sophomore standing.

★ **ECON 203. PRINCIPLES OF ECONOMICS (4) I, II, III.** American economy, national income and employment, banking system, monetary and fiscal policy; economic growth and development; international economics. Prerequisite: sophomore standing. ECON 202 recommended.

ECON 302. INTERMEDIATE MICROECONOMIC THEORY (4) I, II, III. Theory of demand, of the firm, of production and distribution; economics of pure competition, monopoly, and imperfect competition. Factor price determination. Prerequisites: ECON 202 and ECON 203.

ECON 303. INTERMEDIATE MACROECONOMIC THEORY (4) I, III. Concepts and measurement of national income. Analysis of forces determining level of national income and employment, price level, and rate of economic growth. Prerequisites: ECON 202 and ECON 203.

ECON 304. MANAGERIAL ECONOMICS (4) I, II, III. Application of economic theory to decision-making problems of the firm; demand analysis and sales forecasting; theory of production and cost analysis; pricing practices and policies; capital budgeting. Prerequisites: ECON 202 and ECON 203 and STAT 212.

ECON 311. MONEY, BANKING, AND PUBLIC POLICY (4) I, II, III. Nature and functions of money and commercial banking system. Means of monetary regulation and control. Role of money and monetary policy in affecting total economic activity. Prerequisite: ECON 202 and ECON 203.

ECON 321. LABOR ECONOMICS (4) I, III. Economics of manpower employment and labor market; labor organizations, collective bargaining, regulation of labor by government, wage determination, unemployment and social security. Prerequisites: ECON 202 and ECON 203.

ECON 322. LABOR RELATIONS POLICY (4) I. Economic effects of government policy towards organized labor. Collective bargaining implications of pertinent federal and state legislation.

ECON 323. POVERTY, UNEMPLOYMENT, AND INCOME MAINTENANCE (4) III. Structural and cyclical unemployment, alternative responses to poverty, evaluation of training programs and welfare schemes. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 331. PUBLIC FINANCE (4) I. Public expenditures, taxation, and debt; emphasis on federal level. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 332. STATE AND LOCAL GOVERNMENT FINANCE (4) II. Economic functions of state and local governments; revenue sources, expenditure mixes, debt, and inter-governmental fiscal relations. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 336. ECONOMICS OF PUBLIC EXPENDITURES (4) III. Purposes and economic effects of governmental expenditures; budgeting techniques and their effects on resource allocation. Prerequisites: ECON 202 and ECON 203.

ECON 341. TRANSPORTATION ECONOMICS (4) II. Government regulation of transport industries and transportation's role in economy; industry costs and pricing policies. Prerequisites: ECON 202 and ECON 203.

ECON 351. INTERNATIONAL TRADE AND FINANCE (4) I. Structure and regulation of foreign trade; mechanics of international finance; new elements in U.S. foreign trade. Prerequisites: ECON 202 and ECON 203.

ECON 361. INTRODUCTION TO URBAN AND REGIONAL ECONOMICS (4) I. Economic problems and analysis pertaining to urban centers and regions; location theories; theories of urban and regional development. Prerequisites: ECON 202 and ECON 203.

ECON 371. ECONOMIC DEVELOPMENT (4) I. Obstacles to and current efforts for promotion of economic growth in emerging nations. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 372. COMPARATIVE ECONOMIC SYSTEMS (4) III. Economic structures, conditions, problems, and policies in selection of countries. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 400. MATHEMATICS FOR ECONOMISTS (4) I. Elementary mathematical methods and basic applications to economic theory. Not open to students who have had MATH 231 or above.

ECON 401. MATHEMATICAL ECONOMICS (4) III. Economic theory in mathematical context; microeconomic and macroeconomic models, their structure and analysis. Constrained optimization. Prerequisites: ECON 400 or two quarters of calculus, and ECON 302 or ECON 303.

ECON 402. ECONOMETRICS (4) II. Mathematical techniques in formulating models of economic theory; statistical techniques used to measure economic data and to test validity of theoretical models. Prerequisites: STAT 212 and ECON 400, or two quarters of calculus; or consent of instructor.

ECON 404. BUSINESS CONDITIONS (4) III. Business fluctuations covering statistical measurement, components of gross national product, methods of forecasting, theories of fluctuations, problems of stabilization. Prerequisites: ECON 303 or ECON 311, and STAT 212.

ECON 414. MONETARY AND FISCAL POLICY (4) II. Objectives, means, and history of monetary and fiscal control; effect on total economic activity. Prerequisite: ECON 303 or ECON 311.

ECON 423. LABOR-MANAGEMENT RELATIONS (4) II. Employer-employee relations; collective bargaining process; conciliation, mediation, arbitration procedures.

ECON 424. INCOME, WAGES, AND WELFARE: ANALYSIS AND POLICY (4). On demand. Theories of income and wage determination. Effect of employers and labor organizations and economic effects of various income policies. Prerequisites: ECON 202 and ECON 203.

ECON 425. HEALTH CARE ECONOMICS (4). On demand. Economic analysis of health care delivery system in U.S. Consumer's demand for health care, supply of health care by physicians and hospitals, evaluation of policy issues relating to health care. Prerequisites: ECON 202 and ECON 203.

ECON 435. ENVIRONMENTAL ECONOMICS (4). On demand. Methods and research techniques applicable to environmental problems; evaluation of alternative public economic policies for environmental control. Prerequisites: ECON 202 and ECON 203.

ECON 447. ECONOMICS OF REGULATED INDUSTRIES (4) III. Historical development of public regulation of certain industries; methods of regulation and evaluation of public policy towards regulated industries. Prerequisites: ECON 202 and ECON 203.

ECON 451. INTERNATIONAL ECONOMICS (4) II. Theory of international economics; international trade as factor in national income; significance of international investment; public policies to promote trade; international economic cooperation. Prerequisite: ECON 351 or consent of instructor.

ECON 452. INTERNATIONAL MONETARY ECONOMICS (4) III. Alternative international monetary systems; emphasis on present system. Prerequisites: ECON 311 and ECON 351, or consent of instructor.

ECON 453. ECONOMY OF LATIN AMERICA (4). On demand. Economic aspects of Latin American development and growth: structure of economy, applicable models of economic development, thought of leading Latin American economists, current problems and policies. Prerequisite: ECON 351 or consent of instructor or director of Latin American studies program.

ECON 459. URBAN ECONOMICS (4) II. Economic problems of city development; urban-suburban relationships; urban planning and renewal. Prerequisites: ECON 202 and ECON 203.

ECON 460. REGIONAL ECONOMICS (4) III. Regions and regional growth; significance of factor movements and technological change for growth and development of sub-national economic areas; analytical models and techniques. Prerequisite: ECON 361 or consent of instructor.

ECON 461. REAL ESTATE FINANCE (4) III. Market factors affecting residential property values, private sources of funds, role of governmental agencies in residential markets. Prerequisites: ECON 202 and ECON 203. Not for arts and sciences credit.

ECON 471. INDUSTRIAL ORGANIZATION: STUDY OF BUSINESS SIZE AND COMPETITION (4) II. Forces that lead to large corporations and resulting impact of that size on competition; public policy designed to cope with business size. Prerequisite: ECON 202 or consent of instructor.

ECON 473. HISTORY OF ECONOMIC THOUGHT (4) I. Development of economics and economic analysis from Adam Smith to J.M. Keynes. Prerequisites: ECON 202 and ECON 203.

ECON 474. SOVIET ECONOMY (4) III. Resources, structure, operation of Soviet economy today; planned goals of system, institutions and policies used in attaining them. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 475. ECONOMICS OF PUBLIC EDUCATION (1-4). Education as investment in human capital; financing of education and relationship to federal monetary and fiscal policies and to state and local government finance. Prerequisites: ECON 202 and ECON 203 or consent of instructor.

ECON 476. SEMINAR IN CONTEMPORARY ECONOMIC PROBLEMS (4). On demand. Interested students should consult with chair of department.

ECON 491. STUDIES IN ECONOMICS (2-5). On demand. Treatment of selected areas in depth. Offered to individual on lecture basis or in seminar depending on student needs and material. May be repeated to eight hours.

ECON 495. READINGS FOR HONORS IN ECONOMICS (4-9) I, II, III. For economics major with accumulative GPA of 3.0; normally culminates in treatise or comprehensive examination which must receive approval of department. Consult department chair. Prerequisite: consent of department.

Education, College Of (EDCO)

EDCO 200. EARLY SEMINAR IN EDUCATION (2) I, II, III, IV on demand. Exploration of instructional settings, roles, practices, and theories through video tape presentations and interaction with representative educational personnel. Repeatable once to four total credits.

EDCO 201. INTRODUCTION TO CAREER EDUCATION PROGRAMS (3). On demand. Career education programs, purposes, and relationships among

components; emphasis on work education programs (OWA-OWE) mainly through discussion and field experience. Interdepartmental team.

EDCO 202. EXPLORING THE PROFESSION (3) I, II, III, IV. Supervised experience in schools with seminar sessions on campus. Students spend one-half day per week for five weeks in each of two school settings working as teacher participants; possible participation in elementary and secondary setting. Two class hours per week held as seminar on campus; one hour spent analyzing teacher roles with introduction to study of education; second hour is observation of classrooms in settings such as urban, suburban, and rural, through viewing video-tapes made in area schools. Recommended corequisite: SPCH 102. C/F hrs: 57.

EDCO 331. STUDENT TEACHING (15) I, II, III. Required of students in secondary school or special certification program. Classroom teaching under supervision provided on full-day basis. Conferences and seminars supplement program. Fee: \$36. Eligibility requirements listed in General Bulletin must be met. Graded S/U. C/F hrs: 300.

EDCO 332. STUDENT TEACHING (3-11) I, II, III. Upon advice of program faculty and consent of Office of Student Teaching. May be repeated to 22 hours. Special fee assessed. Graded S/U.

EDCO 381. STUDENT TEACHING (15) I, II, III. Required for elementary and/or kindergarten-primary certification. Classroom teaching under supervision on full-day basis. Conferences and seminars supplement program. Fee: \$36. Eligibility requirements must be met. Graded S/U. C/F hrs: 300.

EDCO 382. STUDENT TEACHING (3-11) I, II, III. Upon advice of program faculty and consent of Office of Student Teaching. May be repeated to 22 hours. Special fee assessed. Graded S/U.

EDCO 490. PROBLEMS IN EDUCATION (1-5). On demand. For advanced student wanting to conduct intensive study of selected problems in education. May be repeated to six hours; undergraduate credit only. Prerequisite: consent of department.

Education, Special (EDSE)

EDSE 311. EXCEPTIONAL CHILD IN REGULAR CLASSROOM (3) I, II, III, IV. Teaching exceptional handicapped children in alternative settings. C/F hrs: 10.

EDSE 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format. Requirements usually met within time format. May be repeated on approval of adviser.

EDSE 421. YOUNG HANDICAPPED CHILD IN EARLY CHILDHOOD CLASSROOM (4) III. Knowledge and skills essential to functioning of general education teacher in mainstreamed early childhood classroom.

EDSE 431. EDUCATION OF EXCEPTIONAL CHILDREN (4) I, II, III, IV. Problems of exceptional school children: mentally retarded, learning and behavior disorders, speech-and-hearing-handicapped, visually handicapped, gifted and creative; etiology, diagnosis, personal-social problems, and prognosis. C/F hrs: 11.

EDSE 432. PRINCIPLES AND PURPOSES OF SPECIAL EDUCATION (3) I, II, III, IV. Functions of public schools and governmental agencies in providing educational services for exceptional children.

EDSE 433. EDUCATION OF MENTALLY RETARDED CHILDREN (3) I, II, III, IV. Understanding and teaching educable and trainable mentally retarded children: etiology, diagnosis, theory, educational procedures. C/F hrs: 20.

EDSE 434. LANGUAGE ARTS FOR EDUCABLE MENTALLY RETARDED (5) I, II, III, IV. Practical measures for reading, writing, spelling, oral and written communication. Methods and materials appropriate to developmental levels of educable mentally retarded children. Prerequisites: EDSE 431 and EDSE 433 and EDSE 451.

EDSE 435. ARITHMETIC AND SCIENCE FOR EDUCABLE MENTALLY RETARDED CHILDREN (3) I, II, IV. Functional approach for developing appropriate sequence of skills and knowledge. Prerequisites: EDSE 431 and EDSE 433 and EDSE 451.

EDSE 436. SOCIAL STUDIES FOR EDUCABLE MENTALLY RETARDED CHILDREN (5) I, II, III, IV. Selection, organization, and development of units or social studies cores. Prerequisites: EDSE 431 and EDSE 433 and EDSE 451.

EDSE 437. OCCUPATIONAL ORIENTATION AND JOB PREPARATION FOR EDUCABLE MENTALLY RETARDED CHILDREN (4) III, IV. Responsibilities of special class teacher for developing employable skills. Prerequisites: EDSE 431 and EDSE 433 and EDSE 451. C/F hrs: 25.

EDSE 438. PROBLEMS IN EVALUATING, SELECTING, AND ADAPTING SPECIALIZED INSTRUCTIONAL MATERIALS FOR EXCEPTIONAL PUPILS (3) I, II, III, IV. Analysis, comparison, and use of materials with pupils of specified exceptionality in terms of educational and administrative merit. Prerequisites: EDSE 431 and EDSE 451; or consent of department.

EDSE 439. INTRODUCTION TO STUDY OF TRAINABLE MENTALLY RETARDED CHILDREN (3) I. Known causes of severe retardation and psychological and developmental problems.

EDSE 440. CURRICULUM DEVELOPMENT AND METHODOLOGY FOR TEACHING TRAINABLE MENTALLY RETARDED CHILDREN (3) I, II, IV. Materials and techniques emphasizing development and appropriate skills with practical applications. Prerequisites: EDSE 431 and EDSE 451 and EDSE 433; or consent of instructor.

EDSE 441. EDUCATION OF THE GIFTED AND TALENTED CHILD (4) I, IV. Nature and needs of gifted and talented, identification techniques, curriculum planning and development, teaching strategies and techniques, resources and materials available to teachers and individuals, program evaluation for gifted and talented.

EDSE 442. APPLIED CLASSROOM MANAGEMENT WITH EXCEPTIONAL CHILDREN (3) I, II, III, IV. Arrangement of classroom environments for handicapped individuals which facilitate learning, recording, charting, and analyzing behavior. Reinforcement schedules, criteria for selection of reinforcement schedules; application of therapy and communicating effective management programs to parents. Prerequisites: EDSE 431 and 433. C/F hrs: 15.

EDSE 443. PRACTICUM WITH EXCEPTIONAL CHILDREN (3) I, II, III. Individual observations, participation, and supervised practicum experiences. May be repeated to nine hours. Prerequisite: consent of instructor. Should be taken on S/U basis. C/F hrs: 44.

EDSE 445. SHELTERED WORKSHOP-FUNCTION AND RELATIONSHIP TO SPECIAL EDUCATION (3) III, IV. Sheltered workshops in rehabilitation of mentally retarded. Techniques for job analysis and analyzing skills for specific jobs and job areas. Prerequisites: EDSE 431 and EDSE 433 and EDSE 451.

EDSE 447. ELEMENTARY METHODS FOR THE EMR LEARNER (4) I, II, III, IV. Materials, methods, individualized instruction and evaluation of K-6 model curricula programs. Prerequisites: EDSE 431, 433, 442, 451, and 457, or consent of department. C/F hrs: 20.

EDSE 448. SECONDARY METHODS FOR THE EMR LEARNER (4) I, II, III, IV. Materials, methods, individualized instruction and evaluation of 7-12 model curricula programs. Prerequisites: EDSE 431, 433, 442, 451, 457, or consent of department. C/F hrs: 20.

EDSE 451. EDUCATIONAL UNDERSTANDING OF CHILDREN WITH LEARNING AND/OR BEHAVIOR DISORDERS (4) I, II, III, IV. Multiple origins and educational significance of specific learning disabilities and/or behavior disorders. C/F hrs: 15.

EDSE 453. EDUCATIONAL EVALUATION OF CHILDREN WITH LEARNING DISABILITIES AND/OR BEHAVIOR DISORDERS (4) I, II, III, IV. Identification and analysis of specific learning disorders or disabilities as direct or contributing factors in educational and behavioral failures of otherwise educationally competent children. Prerequisites: EDSE 431 and EDSE 451; or consent of department. C/F hrs: 15.

EDSE 454. EDUCATIONAL PROCEDURES FOR CHILDREN WITH LEARNING DISABILITIES AND/OR BEHAVIOR DISORDERS (5) I, II, III, IV. Special methods, materials, and behavior-management techniques used in teaching children with specific learning disorders or disorders of behavior; includes practicum experience. Prerequisites: EDSE 431 and EDSE 451.

EDSE 455. SECONDARY METHODS II FOR LD/BD CHILDREN (4) I, II, III, IV. Materials, methods, individualized instruction and evaluation of 7-12 model curricula programs. Prerequisites: EDSE 431, 433, 442, 451, and 457. C/F hrs: 20.

EDSE 456. EDUCATIONAL NEUROPSYCHOLOGY OF THE EXCEPTIONAL CHILD (4) I, II, III, IV. Theories and research related to the function and development of the brain as related to language, speech, reading, writing, spelling, mathematics. Major attention given to brain dysfunction, assessment, instructional approaches. Prerequisites: EDSE 431, 433, and 451.

EDSE 457. PARENT EDUCATION AND INTERACTION (3) I, II, III, IV. Approaches for educators in communicating with parents of handicapped children. Counseling parents of these children and their families; understanding the legislated rights of the handicapped child and the role of educators/parents in providing instruction. Prerequisites: EDSE 431 and 433.

EDSE 458. ELEMENTARY METHODS FOR LD/BD CHILDREN (4) I, II, III, IV. Materials, methods, individualized instruction and evaluation of K-6 model curricula programs. Prerequisites: EDSE 431, 433, 442, and 451, or consent of department. C/F hrs: 20.

EDSE 461. INTRODUCTION TO EDUCATION OF THE DEAF (3) I. History and philosophy of education of the deaf. Structure of ear and causes of deafness. Organization, support, and maintenance of programs for deaf and hard-of-hearing children. Types of instruction: oral method, combined method, Rochester method, acoustic method. Prerequisites: EDSE 431 and EDSE 451. C/F hrs: 15.

EDSE 462. INTRODUCTION TO METHODS OF TEACHING ELEMENTARY SCHOOL SUBJECTS TO DEAF AND HARD-OF-HEARING CHILDREN (3) II. Methods of teaching pre-school and primary elementary school subjects. Prerequisites: EDSE 431 and EDSE 451 and EDSE 461. C/F hrs: 15.

EDSE 463. ADVANCED METHODS OF TEACHING ELEMENTARY SCHOOL SUBJECTS TO DEAF AND HARD-OF-HEARING CHILDREN (3) III. Methods of teaching intermediate and junior high subjects. Use of communication skills in all content subject areas. Preparing pupils to enter regular high schools or special colleges. Prerequisites: EDSE 431 and EDSE 451 and EDSE 461 and EDSE 462. C/F hrs: 15.

EDSE 464. BASIC LANGUAGE INSTRUCTION FOR ACOUSTICALLY HANDICAPPED CHILDREN (3) I. Systems of teaching language. Principles of grammar essential to any system of language instruction. Development of oral and written language readiness. Prerequisites: EDSE 431 and EDSE 451. Special education majors only. C/F hrs: 15.

EDSE 465. ADVANCED LANGUAGE INSTRUCTION FOR ACOUSTICALLY HANDICAPPED CHILDREN (3) II. Development of functional language usage in both oral and written form in symbolic systems of communication and ideation for acoustically handicapped child. Prerequisites: EDSE 431 and EDSE 451 and EDSE 464. C/F hrs: 15.

EDSE 470. EDUCATION OF MULTI-HANDICAPPED CHILDREN (3) IV. Educational dynamics, strategies, logistics, and responsibilities involved in socialization and education of multi-handicapped children. Prerequisites: EDSE 431 and EDSE 433 and EDSE 451. C/F hrs: 15.

EDSE 490. PROBLEMS IN EDUCATION (1-6). On demand. For advanced student wanting to conduct intensive study of selected problems in education. May be repeated to six hours; undergraduate credit only. Prerequisite: consent of department.

Educational Administration And Supervision (EDAS)

EDAS 409. ORGANIZATION AND ADMINISTRATION OF EDUCATION IN AMERICAN SOCIETY (4) I, II, III, IV. Local, state, and federal involvement in American education as related to society. Teacher interrelationships; classroom management, school finance, legal issues, job placement and professional relations, teacher evaluation, school-community relations, current educational issues and politics of education as related to societal control. Prerequisites: EDFI 302 and junior status. C/F hrs: 20.

EDAS 413. ADMINISTRATION OF SCHOOL DISCIPLINE AND STUDENT BEHAVIOR PROBLEMS (4) I, II, III, IV. On demand. Student behavior problems and school discipline in educational setting; methods for analyzing problem behavior; comprehensive positive process approach to dealing with student behavior problems and school discipline.

EDAS 460. WORKSHOP IN TEACHER'S ROLE IN STAFF PROBLEMS (4).

EDAS 490. PROBLEMS IN EDUCATION (1-5). On demand. For advanced student wanting to conduct intensive study of selected problems in education. May be repeated to six hours; undergraduate credit only. Prerequisite: consent of department.

EDAS 498. WORKSHOP IN COMMUNITY RESOURCES (4).

Education Curriculum And Instruction (EDCI)

* EDCI 091. READING IMPROVEMENT (3) I, II, III, IV.

Principles underlying efficient reading applied in daily practice; designed to improve skills involved in comprehension, vocabulary, study techniques, and rate of purposeful reading on college level. Credit earned recorded on student's permanent record but not applied to meeting total hours of credit required for graduation. Laboratory fee of \$25.

EDCI 221. EARLY CHILDHOOD EDUCATION COMPETENCY DEVELOPMENT I (3) II, III.

Analysis of identified performance competencies for professionals who work with young children. Creating safe and healthy learning environment for infants and toddlers that helps build child's self-concept. One one-hour seminar weekly plus minimum of 30 hours field participation and weekly consultation.

EDCI 321. EARLY CHILDHOOD EDUCATION COMPETENCY DEVELOPMENT II (3) II, III.

Analysis of identified performance competencies for professionals who work with young children. Carrying out supplementary responsibilities related to children's program, applying child management techniques and beginning to initiate activities that advance preschool child's self-concept as well as physical and intellectual competence. One one-hour seminar weekly plus minimum of 30 hours of field participation and weekly consultation. Prerequisite: EDCI 221.

EDCI 351. SOCIAL STUDIES IN ELEMENTARY

SCHOOLS (3) I, II, III, IV. Teaching social studies in grades K-6. Objectives, content, learning experiences, instructional resources, evaluation of teaching, learning in the classroom. Clinical and field experiences in teaching social studies with children. C/F hrs: 30.

EDCI 352. MATHEMATICS IN ELEMENTARY SCHOOL

(3) I, II, III, IV. Teaching of modern mathematics in grades K-6. Objectives, curriculum, materials of instruction, methods of teaching, and evaluation. Laboratory work may be in elementary school or in clinical work on campus. Prerequisites: MATH 241, and EDFI 302 or EDFI 342. C/F hrs: 30.

EDCI 353. SCIENCE IN ELEMENTARY SCHOOLS (3) I,

II, III, IV. Teaching of science in grades K-6. Objectives, curriculum, materials of instruction, methods of teaching, and evaluation. Four lecture-laboratories. Prerequisite: EDFI 302 or EDFI 342. C/F hrs: 30.

EDCI 355. TEACHING OF READING IN ELEMENTARY

SCHOOLS (3) I, II, III, IV. Theory of developmental reading including teaching procedures, setting objectives, designing curriculum, using instructional materials and evaluation. C/F hrs: 30.

EDCI 356. LANGUAGE ARTS IN ELEMENTARY

SCHOOLS (3) I, II, III, IV. Teaching language arts. Overview, study of language, developmental procedures in guiding growth in oral communication, listening, handwriting, spelling, and written expression. Prerequisite: EDFI 302 or EDFI 342. ENG 380 recommended. C/F hrs: 30.

EDCI 357. KINDERGARTEN-PRIMARY CURRICULUM

AND METHODS (4) I, II, III, IV. Objectives, curriculum, instructional and resource materials; methods. Laboratory experience in kindergarten-primary education. Should precede quarter of student teaching. Prerequisite: EDFI 302 or EDFI 342. C/F hrs: 30.

EDCI 358. MODERN FOREIGN LANGUAGES IN

ELEMENTARY SCHOOLS (4) II. Objectives; methods, curricula, instructional and resource materials in foreign language teaching in elementary school. Open only to elementary education major with language minor or consent of instructor. Prerequisite: EDFI 302 or EDFI 342.

EDCI 359. INDIVIDUALIZATION OF READING

INSTRUCTION IN CLASSROOM (5) I, II, III, IV. Use of diagnostic measures and materials to aid teacher in developing individual student's learning and reading capabilities. Behavioral objectives, organization of classroom, sequencing skills, developing own materials and diagnostic teaching. Prerequisite: EDCI 355 or consent of instructor. C/F hrs: 25.

EDCI 360. CONTENT READING FOR SPECIALIZED

SUBJECT AREAS (3) I, II, III, IV. Designed for preservice teachers seeking certification in specific subject areas at elementary and/or secondary levels. Participants become acquainted with reading needs of students in content area class. Prerequisites: early field experience and EDFI 302. C/F hrs: 30.

EDCI 370. GENERAL TEACHING METHODS IN

SECONDARY SCHOOLS (3) I, II, III. General processes and issues that form the basis of instruction in all content areas; development of strategies and teacher behaviors associated with effective instruction; critical elements of planning, implementing, evaluating instruction, application of those elements in clinical/field setting. Prerequisite: EDCO 202 and EDFI 302. C/F hrs: 35.

EDCI 371. ENGLISH IN SECONDARY SCHOOLS (4) I, II.

Philosophies of, experiences in, and methods for teaching of English in secondary schools. Prerequisite: EDFI 302 and junior standing. C/F hrs: 40.

EDCI 372. SPEECH IN SECONDARY SCHOOLS (4) I.

Principles, objectives, instructional and resource materials, and methods for teaching of speech in secondary schools. Field experience required. Prerequisite: EDFI 302 and junior standing. C/F hrs: 40.

EDCI 373. FOREIGN LANGUAGE IN SECONDARY

SCHOOLS (4) I, II. Principles, objectives, curriculum, instructional and resource materials, and methods of teaching foreign language in secondary schools. Offered primarily for prospective teachers of French, Spanish, and classics in fall quarter only. Offered primarily for prospective teachers of German and Russian in winter quarter only. Prerequisite: EDFI 302 and junior standing. C/F hrs: 30.

EDCI 374. MATHEMATICS IN SECONDARY SCHOOLS

(4) I, II, III. Principles, objectives, curriculum, materials, and methods of teaching mathematics in secondary schools. Observation and participation in local secondary schools. Two lectures and three laboratories. Prerequisite: EDFI 302 and junior standing. C/F hrs: 40.

EDCI 375. SCIENCE IN SECONDARY SCHOOLS (4) I, II,

III. Principles, objectives, curriculum, instructional and resource materials, and methods of teaching science in secondary schools. Two lectures and three laboratories. Prerequisite: EDFI 302 and junior standing.

EDCI 376. SOCIAL STUDIES IN SECONDARY SCHOOLS

(4) I, II, III. Principles, objectives, curriculum, instructional and resource materials, and methods of teaching social studies in secondary schools. Prerequisite: EDFI 302 and junior standing. C/F hrs: 40.

EDCI 377. COMPUTER SCIENCE IN SECONDARY

SCHOOLS (4) III. Principles; objectives; curricular, instructional and resource materials; methods of teaching computer science in secondary schools. Prerequisite: EDFI 302.

EDCI 378. JOURNALISM METHODS FOR HIGH

SCHOOL TEACHERS (4) II. Principles, objectives, curriculum, materials, methods of teaching mass media in secondary schools. Observations and participations in area schools. Prerequisites: EDFI 302 and junior or senior standing. C/F hrs: 40.

EDCI 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated on approval of adviser.

EDCI 401. CONTEMPORARY SECONDARY EDUCATION (4) IV. Secondary school problems in curriculum, organization, planning, and methods in relation to historical, philosophical, psychological, and sociological backgrounds.

EDCI 420. DEVELOPMENTAL READING IN CONTENT AREAS (4) I, II, III, IV. Orients academic subject matter teacher and prospective reading teacher with developmental reading process as it applies to various subject matter areas. Concepts and delivery systems related to readiness, vocabulary, word analysis, comprehension, flexibility, and study skills. Procedures for organizing reading programs at intermediate (middle school), and secondary levels. C/F hrs: 40.

EDCI 423. INVESTIGATIONS IN TEACHING OF ARITHMETIC (4) II, IV. Research in mathematics education as it affects elementary schools. Theories of learning, clinical practice with pupils from local schools, curriculum studies, classroom materials. Recommended prerequisite: EDCI 352 or EDCI 374. C/F hrs: 15.

EDCI 424. INVESTIGATIONS IN TEACHING OF ELEMENTARY SOCIAL STUDIES (4) II, III, IV. Analysis of patterns and principles of organization of social studies in elementary school. Teaching materials and procedures.

EDCI 425. INVESTIGATIONS IN TEACHING OF LANGUAGE ARTS (4) I, II, III, IV. Language arts in elementary school, nature and interrelationships of various components, objectives for teaching and development and evaluation of language learnings, materials and methodology.

EDCI 426. INVESTIGATIONS IN TEACHING OF ELEMENTARY SCIENCE (4) II, IV. Analysis of science concepts and principles which are developed; nature of materials and methodology and design of evaluation procedures.

EDCI 427. INVESTIGATIONS IN ENVIRONMENTAL EDUCATION (4) I, III, and on demand. Investigations of methods, curricular materials and instructional techniques used in environmental education. Interdisciplinary approach, action projects, gaming-simulation, field work and environmental encounters. Prerequisites: PSYC 201, and EDFI 302 or EDFI 304.

EDCI 428. INVESTIGATIONS INTO TEACHING OF SOCIAL STUDIES GRADES 7-12 (4). Analysis of patterns and principles of organization of social studies in grades 7-12. Traditional and non-traditional methodology, alternative approaches to individualizing instruction, simulations and games, and "new" social studies curriculum.

EDCI 490. PROBLEMS IN EDUCATION (1-5). On demand. For advanced student wanting to conduct intensive study of selected problems in education. May be repeated to six hours; undergraduate credit only. Prerequisite: consent of department. C/F hrs: 20.

Educational Foundations And Inquiry (EDFI)

EDFI 302. EDUCATIONAL PSYCHOLOGY (4) I, II, III, IV. Theory and research on learning, development, personality, and motivation applied to educational processes in various learning environments. Some field and/or clinical work. Prerequisite: PSYC 201 and sophomore status. C/F hrs: 20.

EDFI 342. PSYCHOLOGY OF CHILDHOOD (4) I, II, III, IV. Behavior and development of children through elementary school age. Prerequisite: PSYC 201. EDFI 302 recommended.

EDFI 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format used. Requirements usually met within time format. May be repeated on approval of adviser.

EDFI 402. ASSESSMENT AND EVALUATION IN EDUCATION (4) I, II, III, IV. Assessment and evaluation applied to instructional procedures; construction of assessment tools; interpretations of assessment results. Prerequisite: EDFI 302 and one methods course. C/F hrs: 20.

EDFI 408. EDUCATION IN A PLURALISTIC SOCIETY (4) I, II, III, IV. Ideas and assumptions in education. Development of dynamic and personal philosophy of education. Prerequisites: EDFI 302 and junior standing. C/F hrs: 10.

EDFI 411. TEACHERS'S ROLE IN GUIDANCE (4) I, II, III. Human relations and classroom management practices which teachers may use to meet affective and cognitive learning needs of students; practical application of counseling and guidance techniques and strategies which encourage positive classroom climate. Prerequisite: senior standing.

EDFI 412. EDUCATION OF DISADVANTAGED (3) II. Effects of socioeconomic deprivation on educational performance; teaching techniques appropriate to needs and characteristics of disadvantaged student. Prerequisites: education methods and EDFI 302.

EDFI 415. SPACESHIP EARTH SEMINAR (4) II, or on demand. Integrating, synthesizing, environmental education seminar for upperclass and graduate students. Using inquiry approach, participants consider relationships of humankind with total environment.

EDFI 416. PHILOSOPHY OF ENVIRONMENTAL EDUCATION (4) III and on demand. Concepts and processes of environmental education including theories such as Toledo model, strand approach, Environmental Studies Project, Boulder, and other representative models.

EDFI 417. URBAN EDUCATION (4) III. Research, methods, and concepts from sociology and psychology discussed as basis for critically analyzing current educational practices, programs, and policies of urban schools. Resource people used. Library and field research required. Prerequisite: commitment to, or at least serious interest in, urban education.

EDFI 429. ASSESSMENT OF YOUNG AND ATYPICAL CHILDREN (4) I, II, III. Concepts and principles of measurement and instruments used in assessing young and atypical children; integration of measurement and instruction. Prerequisite: EDFI 302.

EDFI 460. SEX ROLE STEREOTYPING AND SEX DISCRIMINATION IN EDUCATION (4). On demand. Education as influential institution and process in society, in terms of sexism in educational materials, curriculum, structure; federal, state, local policy responses to this concern; consideration and development of other policies for action regarding sex equity in education.

EDFI 481. LEADERSHIP TRAINING IN BEHAVIOR ANALYSIS PROGRAM (4-8) IV. Prepares individuals to function as group leaders in academic, year-long, in-service Behavior Analysis Program. Sixty hours of didactic instruction. Prerequisite: permission of instructor and enrollment in Behavior Analysis Program.

EDFI 482. DIRECT STUDY OF THE CHILD (5-9) I. Part of Behavior Analysis Program. A child studied using pre-determined framework.

EDFI 490. PROBLEMS IN EDUCATION (1-5). On demand. For advanced student wanting to conduct intensive study of selected problems in education. May be repeated to 6 hours; undergraduate credit only. Prerequisite: permission of instructor.

Electronic Technology (ET)

(See technology)

English (ENG)

ENG 100. ENGLISH AS FOREIGN LANGUAGE (5) I, II, III. For student whose native language is not English. Development of skills in listening, speaking, reading, and writing standard American English. Placement on basis of proficiency tests. Though it may be necessary for student to repeat course, only five hours of credit counted toward graduation.

★ **ENG 110. DEVELOPMENTAL WRITING** (4) I, II, III. Development of skills in sentence structure, edited American English usage, mechanics, paragraph and short essay construction. Placement through departmental pretesting. Graded S/No record. Student must complete course and departmental proficiency successfully to receive S. No more than eight hours from ENG 110, ENG 111, and ENG 112 may be applied toward graduation.

★ **ENG 111. INTRODUCTORY WRITING** (4) I, II, III. Basic expository writing; emphasis on organizing and developing coherent essay of approximately 500 words for college-educated audience. Placement through departmental pretesting or successful completion of ENG 110. Graded S/No record. Students must complete course and departmental proficiency examination successfully to receive S. No more than eight hours from ENG 110, ENG 111, and ENG 112 may be applied toward graduation.

★ **ENG 112. VARIETIES OF WRITING** (4) I, II, III. Expository writing including research paper; emphasis on analytical writing based on critical reading. Placement through departmental pretesting or successful completion of ENG 111. Graded A, B, C/No record. Student must complete course and departmental proficiency examination successfully to receive passing grade.

★ **ENG 150. RESPONSE TO LITERATURE** (4) I, II, III. Response to themes in poetry, drama, fiction, nonfiction and other literary types. Accepted toward English major or minor as elective.

★ **ENG 200. INTRODUCTION TO LITERATURE: (SUB-TITLE)** (4) I, II, III. Basic literary concepts; works organized on single topic such as black literature, fantasy, science fiction, literature and film. Can be repeated once for credit if topic different. Accepted toward English major or minor as elective.

ENG 201. WRITING ABOUT LITERATURE (4) II, III. Practical criticism and literary interpretation of poetry, drama and fiction. Extensive expository writing. Prerequisite: ENG 112.

ENG 202. INTRODUCTION TO POETRY (4) I, III. Selection of great poems, past and present. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 203. INTRODUCTION TO DRAMA** (4) II. Selected representative plays, past and present. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 204. INTRODUCTION TO FICTION** (4) I. Study of fiction to develop appreciation of short story and novel. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 205. CRAFT OF POETRY** (4) II. Traditional and contemporary poetry; emphasis on way poetry is made. Though required for majors and minors in B.F.A. creative writing program, course fulfills same requirements as ENG 202. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 206. CRAFT OF FICTION** (4) III. The way fiction works, impulses creating it, how it turns out. Emphasis on style and form in traditional and contemporary fiction as way of understanding meaning. Though required for majors and minors in B.F.A. creative writing program, course fulfills same requirements as ENG 204. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 207. INTERMEDIATE WRITING** (4) I, II, III. Primarily exposition. Prerequisite: ENG 112.

★ **ENG 208. CREATIVE WRITING** (4) I, II, III. Principles of poetic composition and fiction writing. Analysis of contemporary models and practice in original composition.

★ **ENG 209. CREATIVE WRITING WORKSHOP** (4) I, II, III. Supervised writing in poetry and fiction; group discussions; concentration on shorter forms. May be repeated once. Prerequisite: "B" or better in ENG 208.

★ **ENG 251. WRITING ABOUT FILMS** (4) II. Same amount of writing as in ENG 207; deals entirely with film theory, films, film scripts, novels on which films are based, and film reviews. Equivalent of ENG 207. Prerequisite: ENG 112.

★ **ENG 261. WORLD LITERATURE** (4) I. Masterpieces of ancient Greece and Rome which have influenced English literature. Homer, Greek drama, Virgil. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 262. WORLD LITERATURE** (4) II. Masterpieces beginning with warrior epics of Early Middle Ages through Dante and Renaissance to Don Quixote. Prerequisite: any ENG literature course or ENG 112.

★ **ENG 263. WORLD LITERATURE** (4) III. Masterpieces of 17th through 20th century. Moliere, Voltaire, Goethe, Romantic poets, Flaubert, Ibsen, Sartre. Prerequisite: any ENG literature course or ENG 112.

ENG 290. LANGUAGE STUDY (5) II. Aspects of form and style in language: structure, usage, semantics; language change and cultural convention; social and regional dialects. Prerequisite: sophomore standing. Not applicable for state certification requirements.

ENG 291. LANGUAGE STUDY FOR ELEMENTARY TEACHERS (4) III. Structure of English; emphasis on linguistic basis of reading, spelling, and other language arts concerns. Prerequisite: ENG 112.

ENG 300. THEMES IN LITERATURE (4) I, II, III. Literary treatment of single theme, such as hero and heroine in literature, youth and age, love and death, innocence and experience, war and peace, wealth and poverty, etc. Primarily for nonmajor. Prerequisite: any 100- or 200-level literature course or consent of instructor. May be repeated once if themes are different.

★ **ENG 301. SHAKESPEARE** (4) I, II, III. Representative comedies, history plays, tragedies and tragicomedies, and sonnets. Designed for student with no previous Shakespeare courses. Prerequisite: any ENG literature course or ENG 112.

- ★ **ENG 303. AMERICAN LITERATURE TO 1850** (5) I. Roots of American literary traditions and growth of national independence of expression: religious, political, philosophical sources of American imagination based on texts of representative writers including Edwards, Paine, Irving, Cooper, Poe, Bryant, Emerson, Thoreau, and Hawthorne. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 304. AMERICAN LITERATURE: 1850-1900** (5) II, III. Literary patterns of idealism, skepticism, and emergent materialism based on texts of representative writers such as Melville, Whitman, Dickinson, Twain, James and Howells; literary movements as local-colorism and realism. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 305. 20TH CENTURY AMERICAN LITERATURE** (5) III. Fiction, drama, and poetry which reflect individual's struggle toward personal and social freedom. Black literature, 1930's social protest, post-war writers. Includes Crane, Dreiser, Hemingway, Steinbeck, Hughes, Baldwin, O'Neill, Albee, Cheever, Malamud, Mailer, and Bellow. Prerequisite: any ENG literature course or ENG 112.
- ENG 306. BIBLE** (5) II. English Bible as literary classic; its development and influence on literary culture. Prerequisite: any 100- or 200-level literature course.
- ★ **ENG 307. GREAT BOOKS** (5) II. Books not usually studied in other courses; organized according to topic such as love, war, or death, or according to genre such as fantasy, science fiction, or romance, or according to works of one or two writers such as Tolkien. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 308. CREATIVE WRITING** (5) I, II, III. Imaginative writing, fiction and poetry. Class discussion and individual conferences. Prerequisite: "B" or better in ENG 209 or approval of instructor. May be repeated once.
- ★ **ENG 309. ENGLISH LITERATURE SURVEY TO 1660** (5) I. Major texts such as Beowulf and Sir Gawain and the Green Knight (in translation), Canterbury Tales (selection), Faerie Queene and Paradise Lost (a book of each). Sonnets and short poetry, drama and prose. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 310. ENGLISH LITERATURE SURVEY 1660-1824** (5) II. Triumph of neo-classic wit and satire, gradual shift to Romantic emphasis on emotion and imagination; Includes Pope, Dryden, Swift, Fielding, Blake, Wordsworth, Byron, Shelley, and Keats. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 311. ENGLISH LITERATURE SURVEY: 1824 TO PRESENT** (5) III. Major authors of major literary traditions from Victorian age to present. Though continuation of ENG 309 and ENG 310, this course need not be taken in sequence. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 320. MODERN POETRY** (4) I. English and American poetry and European poetry in translation from 1900 to 1945; writers and works significantly influencing development of poetic forms. Prerequisite: any ENG literature course or ENG 112.
- ENG 322. 19TH CENTURY AMERICAN FICTION** (4) I. Short stories and novels. Includes Poe, Hawthorne, Melville, Twain, James and Crane; minor writers including regional humorists. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 323. MODERN FICTION** (4) I, III. Emphasis on the novel; American and English works as well as works in translation from 1900 to 1945; works which represent development of forms of fiction. Prerequisite: any ENG literature course or ENG 112.
- ENG 324. MODERN NOVEL: JAPANESE** (4) II. Masterworks since Meiji Era and first impact of Western literary forms. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 325. MODERN DRAMA** (4) II. Great plays by Ibsen, Chekhov, Shaw, O'Neill, and others; dramatist's insights into human condition. Prerequisite: any ENG literature course or ENG 112.
- ENG 330. CONTEMPORARY POETRY** (4) II. Cross section of English and American poetry and European poetry in translation, mostly written since 1945; writers and works representing major trends in development of poetry. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 333. CONTEMPORARY FICTION** (4) III. Cross section of American and English fiction and European fiction in translation, mostly written since 1945; works representing major trends in development of fiction. Prerequisite: any ENG literature course or ENG 112.
- ENG 335. CONTEMPORARY DRAMA** (4) III. Plays since 1945 by American, British and European dramatists (in translation); new techniques, thematic trends, and aspect of human condition revealed through plays. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 342. CHILDREN'S LITERATURE** (5) I, II, III. Reading and evaluation of books for children from nursery school through junior high school; novels, folklore, informational literature, poetry, and bibliographical sources. Not open to student with credit for L&EM 342. Prerequisite: any ENG literature course or ENG 112.
- ENG 343. LITERATURE FOR ADOLESCENTS** (4) III. Reading and evaluation of books for junior and senior high school students; emphasis on fiction; also biography and other nonfiction, folklore, myth, poetry. Prerequisite: any ENG literature course or ENG 112.
- ★ **ENG 372. LITERATURE OF MINORITIES** (5) II, III. Minority literary expression: aims, methods and accomplishments. Prerequisite: any ENG literature course or ENG 112.
- ENG 380. INTRODUCTORY ENGLISH LINGUISTICS** (5) I, II, III. Structure of English through recent linguistic theories and related topics such as dialects, usage, dictionaries. Prerequisite: sophomore standing.
- ENG 381. GRAMMAR AND WRITING** (4) II, III. Application of grammatical models (traditional, structural, and transformational) to written discourse; dialects and styles. Prerequisite: ENG 380.
- ENG 385. STUDIES IN LITERATURE-FILM** (4) III. Problems in film's relationship to literature; definitions and theory; specific films and literary works. May focus on author, genre, or historical period. May be repeated once if topics are different. Prerequisite: any ENG literature course or ENG 112.
- ENG 400. CHAUCER** (4) III. The Canterbury Tales, Troilus and Criseyde, and such dream-vision poems as The Book of the Duchess and Lyrics in Middle English. Prerequisite: any ENG literature course or ENG 112.
- ENG 401. ADVANCED SHAKESPEARE** (4) I. Shakespeare's dramatic technique in tragedy, comedy, or history play. Prerequisite: ENG 301.
- ENG 402. ENGLISH MEDIEVAL LITERATURE** (4) II. Poetry, prose, and drama including such works as Beowulf (selection), Pearl, The Wakefield Plays, and The Prick of Conscience read in Old and Middle English or in translation. Prerequisite: any ENG literature course or ENG 112.
- ENG 403. 16TH CENTURY ENGLISH POETRY AND PROSE** (4) II. Renaissance literature, including great sonnets, early novels, Spenser's Arthurian epic, Skelton's satires, and Marlowe's erotic love poetry. Prerequisite: any ENG literature course or ENG 112.
- ENG 404. 17TH CENTURY WRITERS** (4) II. Poetry and prose from 1600 to 1660; Donne, Jonson, Herrick, Herbert, Vaughan and Marvell, Bacon, Browne, Hobbes, and Bunyan. Prerequisite: any ENG literature course or ENG 112.

ENG 406. ENGLISH RENAISSANCE DRAMA (4) III. English drama (except Shakespeare) before 1642, including Marlowe, Jonson, and Webster; reading in antecedent forms and traditions. Prerequisite: any ENG literature course or ENG 112.

ENG 407. WRITER'S WORKSHOP (5) I, II, III. Analysis of contemporary creative writing models, and original composition; emphasis on fiction and poetry. Creative writing majors repeating course required to do special project. Prerequisite: "B" or better in ENG 308 or approval of instructor. May be repeated once.

ENG 408. MILTON (4) III. *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes* and selected minor poems and prose. Prerequisite: any ENG literature course or ENG 112.

ENG 410. ENGLISH RESTORATION AND 18TH CENTURY DRAMA (4) III. Restoration features heroic drama, pathetic tragedy, and libertine comedy; 18th century sentimentality and laughing comedy. State and theatre design, historical and social background. Prerequisite: any ENG literature course or ENG 112.

ENG 411. 18TH CENTURY WRITERS (4) III. Prose and poetry from Restoration, Augustan, and Johnsonian periods; neoclassical and preromantic writers; Dryden, Swift, Pope, Johnson, Boswell. Prerequisite: any ENG literature course or ENG 112.

ENG 415. ENGLISH NOVEL: DEFOE TO AUSTEN (4) I. Defoe, Richardson, Fielding, Smollett, Sterne, Austen, and contemporaries. Prerequisite: any ENG literature course or ENG 112.

ENG 416. ENGLISH NOVEL OF 19TH CENTURY (4) III. Bronte, Dickens, Hardy and other novelists of Victorian England. Beginnings of modern society, its problems and possibilities, and development of novel as a unique modern form. Prerequisite: any ENG literature course or ENG 112.

ENG 417. ROMANTIC WRITERS (4) I. English poetry and prose from 1789-1832; Blake, Wordsworth, Coleridge, Byron, Shelley, Keats. Prerequisite: any ENG literature course or ENG 112.

ENG 418. VICTORIAN WRITERS (4) II. Prose and poetry of Carlyle, Mill, Tennyson, Browning, Arnold, the Pre-Raphaelite poets and successors. Prerequisite: any ENG literature course or ENG 112.

ENG 419. MODERN BRITISH WRITERS (4) I. Major British writers from 1900 to 1945: Joyce, Lawrence, Conrad, Forster, Woolf, Yeats, O'Casey, Shaw, Auden. Prerequisite: any ENG literature course or ENG 112.

ENG 420. MODERN AMERICAN WRITERS (4) II. Major American writers from 1900 to 1945: Eliot, Pound, Stein, Frost, Stevens, O'Neill, Hemingway, Fitzgerald, Faulkner. Prerequisite: any ENG literature course or ENG 112.

ENG 423. WOMEN'S STUDIES IN LITERATURE (4) III. Topics such as women poets or women novelists, depiction of women in works by men, feminist criticism; primarily British and American writers. May be repeated to eight hours if topics are different. Prerequisite: any ENG literature course or ENG 112.

ENG 430. AMERICAN TRANSCENDENTALISM (4) III. Major writers of Transcendentalist movement and social and philosophical background of their time; Emerson and Thoreau. Prerequisite: any ENG literature course or ENG 112.

ENG 435. HAWTHORNE AND MELVILLE (4) II. Major works of Hawthorne and Melville and background of the age. Prerequisite: any ENG literature course or ENG 112.

ENG 442. STUDIES IN CHILDREN'S LITERATURE (4) I. Problems in children's literature; history, criticism, trends, individual authors, types. Not open to student with credit for L&EM 442. Prerequisite: ENG 342 or permission of instructor.

ENG 452. STUDIES IN ENGLISH LITERATURE TO 1600 (4). Intensive study of author, literary school, genre, or selected theme. May be repeated to eight hours if topics are different. Prerequisite: any ENG literature course or ENG 112.

ENG 453. STUDIES IN ENGLISH AND AMERICAN LITERATURE: 17TH AND 18TH CENTURIES (4). Intensive study of author, literary school, genre, or selected theme. May be repeated to eight hours if topics are different. Prerequisite: any ENG literature course or ENG 112.

ENG 454. STUDIES IN ENGLISH AND AMERICAN LITERATURE: 19TH CENTURY (4). Intensive study of author, literary school, genre, or selected theme. May be repeated to eight hours if topics are different. Prerequisite: any ENG literature course or ENG 112.

ENG 455. STUDIES IN ENGLISH AND AMERICAN LITERATURE: 20TH CENTURY (4). Intensive study of author, literary school, genre, or selected theme. May be repeated to eight hours if topics are different. Prerequisite: any ENG literature course or ENG 112.

ENG 456. CRITICAL WRITING (4) II. Writing from various critical perspectives such as biographical, textual, psychological, mythical, analytical. Prerequisite: any ENG literature course or ENG 112.

ENG 472. MODERN SCIENTIFIC WRITERS (4) II. Selected 20th century scientific writers as rhetorical models; problems of communicating complex technical information to general audience.

ENG 481. ADVANCED ENGLISH LINGUISTICS (4) III. Intensive study of topic in English linguistics. Topics announced in advance and vary from section to section and quarter to quarter. May be repeated if topics clearly different. Prerequisite: ENG 380.

ENG 482. HISTORY OF ENGLISH LANGUAGE (4) I. Changes in sounds, grammar, usage, and meaning from Old English to present. Prerequisite or parallel: ENG 380.

ENG 483. ADVANCED WRITING (4) I. Expressive writing; composing process and techniques for stimulating and evaluating writing in secondary school. For prospective teachers and anyone interested in craft of writing or creative process. Prerequisite: EDCI 371 or consent of instructor.

ENG 485. WRITING FILM CRITICISM (4) III. Principles and assumptions underlying approaches to film criticism as revealed in commentaries and critiques; application of these principles to writing film criticism. Prerequisite: ENG 201 or ENG 207 or ENG 208 or ENG 251, or permission of instructor.

ENG 488. TECHNICAL WRITING (4) I, II, III. Professional course designed for practical application in business, industry, and sciences. May be repeated once for credit. Prerequisite: senior standing.

ENG 489. INTERNSHIP IN TECHNICAL WRITING (1-15) I, II, III, IV. Fulltime technical writing internship for 10 weeks in industrial publications office under supervision of professional publications director. Available only for students with exceptional skill in technical writing, with approval and recommendation of technical writing staff. Prerequisite: ENG 488 and approval of technical writing staff.

ENG 490. TUTORIAL IN LANGUAGE AND LITERATURE (1-5) I, II, III. For advanced student or small group of students to work independently in specialized subject not covered by existing courses. Prerequisites: junior standing; eight hours of ENG beyond 112; written description of the proposal prepared by student and signed by proposed tutor, to be submitted to undergraduate curriculum committee in English prior to end of preceding quarter.

ENG 495. HONORS READING (4). For superior major or minor who wants to pursue common studies determined by interests of group looking toward granting of honors in English. Prerequisite: consent of instructor.

Environmental Health (ENVH)

ENVH 401. WASTE MANAGEMENT AND DISPOSAL (4)

I. Problems of disposing of wastes generated by various segments of community; sources of material, levels of authority and responsibility, and alternatives for disposal.

ENVH 402. AIR AND NOISE POLLUTION IN

COMMUNITY (4) II. Sources and effects of air and noise pollutants; various methods of monitoring, evaluation, and control; elements of development and implementation of control systems.

ENVH 403. ENVIRONMENTAL CONSIDERATIONS IN

OCCUPATIONAL HEALTH (4) III. Prevention and control of occupational health and safety hazards through improvement of working environment; applicable laws and standards; key concepts in recognition and evaluation of potential hazards.

ENVH 404. ORGANIZATION OF PUBLIC AND

ENVIRONMENTAL HEALTH SERVICES (4) II. Concepts and philosophy of public health as reflected by national, state, regional, and local programs. Prerequisite: junior status; instructor's permission if not an environmental major or health and community services student.

ENVH 470. SPECIAL PROBLEMS IN ENVIRONMENTAL HEALTH (1-5) I, II, III, IV. Student designs and carries out study or special project in area of interest. Prerequisite: program director's permission. May be repeated.

ENVH 491. PRACTICUM (2-16) I, II, III, IV. Experience working under supervision in selected environmental, public health, or health planning agencies or industries with environmental health units; emphasis on practice rather than observation. May be repeated to 16 hours; minimum of eight hours required for students in environmental health program. Prerequisites: instructor's permission, at least junior status. Graded S/U.

Environmental Health Technology (ENVT)

- † **ENVT 110. MICROBIOLOGY FOR WATER AND FOOD (5).** Fundamentals of microbiology; emphasis on drinking water and dairy foods. Three hours of lecture, six hours of laboratory. Prerequisite: CHEM 111 and 112, or CHEM 121 and 122, or consent of instructor.
- † **ENVT 121. ENVIRONMENTAL LAW (3).** Foundations of environmental law; historic precedents, current legislation, environmental impact statements, how to testify in a court of law.
- † **ENVT 122. INSPECTION LEGALITIES (1).** Legal responsibilities of making environmental pollution, safety, and health inspections.
- † **ENVT 141. CONTEMPORARY PROBLEMS IN ECOLOGY (5).** Biological implications of man's effect on environment; environmental problems of air, water, and land pollution as related to environmental technologist. Four hours of lecture, three hours of laboratory.
- † **ENVT 160. ENVIRONMENTAL SANITATION (3).** Epidemiology, communicable disease control, individual sewage treatment, weed and vector control, solid and liquid waste disposal. Three hours of lecture and field study.
- † **ENVT 211. BIOLOGICAL EXAMINATION OF WATER AND WASTEWATER (5).** Quantitative and qualitative analysis of bacteria, algae, and common aquatic organisms in water, wastewater, and bottom materials. Three hours of lecture, six hours of laboratory. Prerequisite: ENVT 110.

- † **ENVT 222. WATER AND WASTEWATER TREATMENT (6).** Water supply and treatment and wastewater treatment and disposal. Four hours of lecture, six hours of laboratory and field study. Prerequisite: ENVT 110 and CHEM 112 or 122 or consent of instructor.
- † **ENVT 223. WASTEWATER PACKAGE TREATMENT (2)** Basic concepts of routine operation, maintenance, process control, and safety for operator personnel and inspectors of package type extended aeration plants. Twenty-eight hours of lecture.
- † **ENVT 225. ENVIRONMENTAL HEALTH AND PROTECTION (3).** Basic concepts in industrial toxicology, noise, illumination, effects of temperature, and radiation uses and protection. Two hours lecture, three hours of laboratory and field study.
- † **ENVT 226. INSTITUTIONAL HEALTH AND SANITATION (3).** Elementary inspection techniques of recreation areas, marinas, housing, schools, temporary residences, trailer parks, and migrant labor facilities, and public health planning and administration. Three hours of lecture.
- † **ENVT 260. AIR POLLUTION SURVEILLANCE AND CONTROL (5).** Fundamentals of air pollution and industrial hygiene surveillance, monitoring, analysis, and control. Three hours of lecture, six hours of laboratory or field study. Prerequisites: ENVT 225 and AMS 111.
- † **ENVT 261. INDUSTRIAL VENTILATION (3).** Principles of ventilation; design and evaluation of general, dilution, local exhaust ventilation systems. Two hours of lecture, three hours of laboratory. Prerequisite: ENVT 260 or consent of instructor.
- † **ENVT 270. HEALTH CARE SANITATION AND SAFETY INSPECTION (4).** Environmental health and safety in health care facilities; administration, environmental services, infection control, fire safety, patient and employee safety, occupational health, inspection techniques. Three hours of lecture, three hours of field study.
- † **ENVT 271. SAFETY AND HYGIENE (2).** Fire and employee safety, industrial occupational hygiene analysis, occupational health and safety programs, inspection techniques. Three hours of lecture, three hours of field study for five days.
- † **ENVT 272. HAZARD RECOGNITION (3).** Hazard recognition in work environment; emphasis on construction and factory operations. Three hours of lecture.
- † **ENVT 273. OCCUPATIONAL SAFETY ANALYSIS (3).** Accident prevention; worker's compensation, laws and regulations, accident investigation, safety training, personal protective equipment. Three hours of lecture.
- † **ENVT 280. FOOD MANAGER CERTIFICATION (2).** Microbiology, inspection techniques, safety analysis, prevention of food-borne diseases, Ohio food service laws and planning and equipment review. Prerequisite: can only be taken by food service managers, supervisors or sanitarians. Twenty-eight hours of lecture.
- † **ENVT 281. ADVANCED FOOD MANAGEMENT (1).** Motivating employees, insect and rodent control, training personnel, causes and prevention of food-borne diseases, advanced inspection techniques, cleaning and sanitizing. Prerequisite: ENVT 160 or ENVT 280. Fourteen hours of lecture.
- † **ENVT 290. EXPERIMENTAL STUDIES IN THE ENVIRONMENT (1-4).** Environmental study projects, workshops, seminars, and computer simulation classes dealing with air, water, or land resource utilization and planning.
- † **ENVT 291. STUDENT FIELD EXPERIENCE (4).** Ten weeks of field work in environmental health under supervision of a regulatory agency or a private industrial concern and the director of Environmental Health at Firelands College. Prerequisite: permission of supervisor.

Environmental Studies (ENVS)

ENVS 101. APPROACHES TO ENVIRONMENTAL STUDIES (2) II. Introduction to philosophy and practice of environmental concern; career opportunities; contemporary issues organizations.

ENVS 301. ENVIRONMENTAL PROBLEMS (3) I. Interdisciplinary approach to selected environmental problems through research and analysis; emphasis on team approach.

ENVS 401. ENVIRONMENTAL STRATEGIES (3). Explorations into environmental problem solving through systems approach and citizen participation process.

ENVS 402. ENVIRONMENTAL IMPACT STATEMENTS (3) II. History and concepts of environmental impact statements; procedures in preparing and reviewing such statements.

Ethnic Studies (ETHN)

ETHN 101. INTRODUCTION TO ETHNIC STUDIES (4) I, II, III, IV. Key theoretical concepts in ethnicity; surveys studies and problems of ethnic groups.

ETHN 201. CHICANOS IN AMERICAN SOCIETY (4) I, II, III. Social culture of Chicanos in United States; major concepts and themes of Chicano biculturalism and their folk culture.

ETHN 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Comprehensive study of America's ethnicity; emphasizes the three ethnic groups of northwest Ohio — Afro-Americans, Mexican Americans, Polish Americans; development of relevant curriculum pertaining to ethnic groups studied.

ETHN 410. CONTEMPORARY MEXICAN AMERICAN SOCIAL THOUGHT (4) I, II, III. Development of Mexican social-philosophical thought as exemplified by Santa Anna, Juarez, Diaz, Zapata, and Cardenas as related to Chicano ideologies, their significant parallels within contemporary periods and institutions.

ETHN 480. SEMINAR IN ETHNIC STUDIES (4) I, II, III, IV. Specific content areas offered depends on demand and interest of staff. May be repeated three times. May or may not partially fulfill group requirements. Prerequisite: consent of instructor.

ETHN 489. FIELD STUDY IN ETHNIC STUDIES (4-12) I, II, III, IV. Placement of students in a variety of agencies or businesses relevant to study of ethnicity or research/study outside Bowling Green. Prerequisites: junior standing, eight hours of upper division ETHN courses relevant to the study, and consent of instructor. Graded S/U.

ETHN 490. READINGS IN ETHNIC STUDIES (1-4) I, II, III, IV. Individual extensive readings in consultation with instructor in fields of special interest. May be repeated. May or may not partially fulfill group requirements. Prerequisite: consent of instructor.

Experimental Studies (EXPR)

★ **EXPR 201. INDEPENDENT STUDIES** (1-16) I, II, III, IV. Research or project designed by student under general supervision of faculty member. Open to any sophomore, junior, or senior. Contact University Division of General Studies prior to registration.

EXPR 395. INSTRUCTIONAL INTERNSHIP (2-4) I, II, III. Instructional assistance to faculty in seminar program. Prerequisite: by invitation only.

★ **EXPR 401. INDEPENDENT STUDIES** (1-16) I, II, III, IV. Research or project designed by student under general supervision of faculty member. Open to any sophomore, junior or senior. Contact University Division of General Studies prior to registration.

Finance (FIN)

FIN 200. PERSONAL FINANCE (4) I, II, III. Primarily for nonbusiness majors. Personal income management; borrowing sources and costs; auto, property and life insurance; homeownership financing; personal investment strategy, and long-range personal financial planning. Not open to juniors and seniors majoring in business administration.

★ **FIN 300. BUSINESS FINANCE** (4) I, II, III, IV. Acquisition and allocation of funds in business enterprise. Fundamentals of financial analysis, current assets management, capital budgeting, financial structure, dividend policy, types of security contracts, and short-term financing. Prerequisites: ECON 203, and ACCT 222.

★ **FIN 330. PRINCIPLES OF INVESTMENT** (4) I, II, III. Investment process related to commitment of funds in securities. Risks and rewards of different investment media. Investment analysis and timing, portfolio construction and supervision. Prerequisite: FIN 300 or permission of instructor.

FIN 342. REAL ESTATE ADMINISTRATION (4) II, IV. Investment decision making in land resource use appraisal and investment analysis. Real estate location and markets, public influence, property rights, finance, taxation and administration. Accepted by Ohio Real Estate Commission as one of two required courses to take licensing exam. Prerequisite: ECON 203 or permission of instructor.

FIN 360. FINANCIAL INSTITUTIONS (4) I, III. Institutions which participate in money and capital markets; markets for corporate securities, real estate finance, federal government and agency obligations, and state and local government obligations. Prerequisites: FIN 300 and ECON 311.

FIN 425. FINANCIAL MANAGEMENT IN HEALTH CARE SERVICES (4) II. Application of financial management principles; funds flow analysis; forecasting and budgeting; benefit/cost considerations; ratio analysis; government subsidy implications for capital budgeting; sources of capital, planning capital structure. Prerequisite: FIN 300.

FIN 433. SECURITY ANALYSIS (4) I. Selecting securities for investment objectives. Appraisal of investment risks for specific securities; valuation and suitability for purchase, retention, or sale; appropriateness for stated portfolio objectives. Prerequisite: FIN 330.

FIN 436. PORTFOLIO MANAGEMENT (4) II. Additional topics in security analysis. Theory and practice of portfolio construction and review; practical applications in portfolio management. Prerequisite: FIN 433.

FIN 450. PROBLEMS IN FINANCIAL ADMINISTRATION (4) I, III. Case method approach to problems in procurement, administration, and control of funds. Prerequisite: FIN 300. ACCT 322 or ACCT 332 or ACCT 337 recommended.

FIN 452. CAPITAL BUDGETING (4) III. Capital investment policies of firm; cost of capital, rationing, rate of return, capital replacement; problems in estimating earnings, cost saving, obsolescence; Importance of reviewing past decisions. Prerequisite: FIN 450.

FIN 461. BANK MANAGEMENT (4) II, IV. Top management study of banking. Management of funds, sources, and their allocation among reserves, loans, and investments to provide liquidity and earnings. Services to depositors; public relations. Prerequisites: FIN 300 and ECON 311.

FIN 491. STUDIES IN FINANCE (1-4). On demand. In-depth study of selected areas. Offered to individual students on lecture basis or as seminar depending on student needs and nature of material. May be repeated to eight hours.

Firelands (FIRE)

- † **FIRE 100. GROW SEMINAR** (1). Developmental experience course for entering freshmen; focus on growth in many dimensions; self-awareness, academic skills, social skills, leadership, decision-making. Graded on S/U basis only.

French (FREN)

- ★ ***FREN 101. ELEMENTARY FRENCH** (4) I, II. Beginning oral-aural study; attention to grammar. Four class periods and scheduled oral practice each week.
- ★ ***FREN 102. ELEMENTARY FRENCH** (4) I, II, III. FREN 101 continued. Four class periods and scheduled oral practice each week. Prerequisite: FREN 101.
- ★ ***FREN 103. ELEMENTARY FRENCH** (4) I, II, III. FREN 102 continued. Four class periods and scheduled oral practice each week. Prerequisite: FREN 102.
- FREN 111. FRENCH CULTURAL SERIES I** (4) I, II. French culture; development of language awareness for reading comprehension. Discussion in English. No laboratory.
- FREN 112. FRENCH CULTURAL SERIES II** (4) I, II, III. French culture; development of language awareness for reading comprehension. Discussion in English. Prerequisite: FREN 101 or FREN 111. No laboratory.
- FREN 113. FRENCH CULTURAL SERIES III** (4) I, II, III. Continuation of FREN 112. No lab. Prerequisite: FREN 102 or FREN 112.
- ★ ***FREN 201. INTERMEDIATE FRENCH** (4) I, II, III. Four class periods and scheduled oral practice each week. Prerequisite: FREN 103 or two years of French in high school.
- ★ ***FREN 202. INTERMEDIATE FRENCH** (4) I, II, III. FREN 201 continued. Four class periods and scheduled oral practice each week. Prerequisite: FREN 201 or three years of French in high school.
- FREN 211. FRENCH CULTURAL SERIES IV** (4) I, II, III, IV. Further development of reading skill. Extensive reading in masterpieces of French literature and related cultural texts. Some reading in English translation. Prerequisite: FREN 103 or FREN 113, or two years of French in high school.
- FREN 212. FRENCH CULTURAL SERIES V** (4) I, II, III, IV. Continuation of FREN 211. Prerequisite: FREN 201 or FREN 211 or three years of French in high school.
- FREN 260. FRENCH WOMEN WRITERS IN TRANSLATION** (3). Study in English of French women writers throughout the ages. Not applicable toward French major or minor.
- FREN 261. MODERN FRENCH WRITERS IN TRANSLATION** (3). Readings in English from Camus, Sartre, Beckett, Ionesco. Not applicable toward French major or minor.
- FREN 350. FRENCH CONNECTION** (3) I. Bridge between FREN 202 and advanced courses. Intensive grammar review and translation. Required of all majors but may be waived by Department of Romance Languages. Prerequisite: FREN 202.
- FREN 351. FRENCH COMPOSITION AND CONVERSATION I** (3) I. Improvement of oral and written skills; emphasis on composition. Prerequisite: FREN 202.
- FREN 352. FRENCH COMPOSITION AND CONVERSATION II** (3). FREN 351 continued; emphasis on conversation. Prerequisite: FREN 202.

*Credit toward graduation is not allowed for FREN 101, FREN 102, FREN 103, FREN 201, or FREN 202 when equivalent credit has been accepted from high school as part of admission credits, except that a student is allowed to duplicate one unit of high school study with University credit and that a student with two years of high school study is allowed to take FREN 102 and FREN 103 for credit.

FREN 353. FRENCH DICTION (3). French pronunciation; syllabification, stress, linking, intonation. Prerequisite: FREN 202.

FREN 355. FRENCH LINGUISTICS (4) I. Sound system and grammatical structures of modern French; practical application. Prerequisite: FREN 202.

FREN 361. INTRODUCTION TO FRENCH LITERATURE I (3). Chronological evaluation of outstanding works from Middle Ages through 17th century; various movements and genres. Prerequisite: FREN 202.

FREN 362. INTRODUCTION TO FRENCH LITERATURE II (3). FREN 361 continued; masterpieces from 18th century to present; various movements and genres. Prerequisite: FREN 202.

FREN 371. FRENCH CIVILIZATION I (4). Political, social, intellectual, artistic life of French people from prehistoric times to Industrial Revolution; background for literary studies and preparation for teaching of French. Prerequisite: FREN 202.

FREN 372. FRENCH CIVILIZATION II (3). FREN 371 continued; political, social, intellectual, artistic life of modern France. Prerequisite: FREN 202.

FREN 389. CONTEMPORARY TOURAINE (4) III. Individual research projects culminating in term paper dealing with some aspect of region of Touraine. Prerequisite: FREN 202. Offered only abroad.

FREN 451. ADVANCED COMPOSITION (3). Increased facility at written composition through practice in grammatical patterns. Prerequisite: FREN 351.

FREN 452. ADVANCED CONVERSATION (3). Development of increased speaking facility. Prerequisite: FREN 352.

FREN 453. ADVANCED FRENCH PHONETICS (3). Continued study of pronunciation, stress, and intonation. Prerequisite: FREN 353.

FREN 463. CAREER FRENCH (3). Terminology used in commercial operations, economics, international trade; emphasis on business correspondence; some translation. Prerequisite: FREN 351 or FREN 352.

FREN 468. FOUR GREAT FRENCH DRAMATISTS (4). Alternate years. Ten important plays by Corneille, Rotrou, Racine, Moliere, illustrating typical traits of baroque and classical literature. Prerequisite: FREN 361.

FREN 469. BAROQUE AND CLASSICAL AUTHORS OF 17TH CENTURY (4). Alternate years. Ten great authors of 17th century, illustrating typical traits of baroque and classical styles. Prerequisite: FREN 361.

FREN 474. ENLIGHTENMENT (4). Alternate years. Postclassical literature from 1685 to 1750, especially writings of Montesquieu and Voltaire. Prerequisite: FREN 362.

FREN 475. PREROMANTICISM (4). Alternate years. Literature of sensibility from 1750 to 1800, especially writings of Diderot and Rousseau. Prerequisite: FREN 361.

FREN 484. ROMANTIC PERIOD (4). Alternate years. Thematic study of selected works of poetry, theatre, and novel during Romantic movement. Prerequisite: FREN 362.

FREN 485. REALISM AND NATURALISM (4). Alternate years. Works by Stendhal, Balzac, Flaubert, Zola; representative poetry of period. Prerequisite: FREN 362.

FREN 489. FRENCH LITERATURE: ADVANCED STUDIES (4). Intensive study of author, literary school, genre, or a selected theme. May be repeated to 12 hours if topics are clearly different. Prerequisite: FREN 361 or FREN 362.

FREN 491. READINGS IN FRENCH LITERATURE (1-4) I, II, III, IV. Independent reading for advanced student who wishes to study particular author or period, or problem in language or civilization. Prerequisite: consent of department chair and instructor.

FREN 494. MODERN FRENCH NOVEL (4). Alternate years. French novel since 1900; major works, innovations, trends. Prerequisite: FREN 362.

FREN 495. MODERN FRENCH POETRY AND DRAMA (4). Alternate years. French poetry and drama since 1900; surrealist and black poets; the new theatre. Prerequisite: FREN 362.

Geography (GEOG)

* **GEOG 121. WORLD GEOGRAPHY: EURASIA AND AFRICA** (3) I, II, III, IV. Geographical analysis of selected topics in Asia, Africa, and Europe. Ecological aspects of cultural, political, and economic problems. Open only to freshmen and sophomores.

* **GEOG 122. WORLD GEOGRAPHY: AMERICAS AND PACIFIC** (3) I, II, III, IV. Geographical analysis of selected topics in Americas and Pacific world. Ecological aspects of cultural, political, and economic problems. Open only to freshmen and sophomores.

* **GEOG 125. WEATHER AND CLIMATE** (4) I, II, III. Atmospheric elements and controls; earth-sun relationships, weather components, weather prediction, and climatic types and distribution. Three one-hour lectures, one-hour demonstration-discussion.

* **GEOG 126. VEGETATION AND SOILS** (4) I, II. Physical geography; distribution and classification of vegetation and soil and representation of earth on maps. Three one-hour lectures, one-hour discussion-demonstration.

* **GEOG 127. LAND FORM DEVELOPMENT AND DISTRIBUTION** (4) II, III. Physical geography; processes of land form development, world-wide distribution of land forms, and U.S. physiographic features and regions. Three one-hour lectures, one-hour demonstration-discussion session.

GEOG 212. ATMOSPHERIC ENVIRONMENT (4) II. Fundamentals of atmospheric environment; emphasis on air with interactions, regimes, and spatial distribution.

* **GEOG 213. METEOROLOGY** (4) I, II, III. Physical processes of atmosphere and relationship to daily weather pattern.

* **GEOG 225. RESOURCE DISTRIBUTION AND ECONOMIC ACTIVITY** (4) I, II, III. Ways in which man has developed natural and human resources to meet economic needs; resulting patterns in economic landscape.

* **GEOG 230. CULTURAL GEOGRAPHY** (5) I, II, III. Geographic influences upon population distribution, religion, dietary patterns, economics, others.

GEOG 231. AMERICAN INDIAN (4) I. Past and present spatial aspects of native American population in United States and Canada; distributions, migrations, economies, land tenure, cultures, art, rural and urban settlement, impact upon cultural and physical landscapes.

GEOG 300. TOPICS IN GEOGRAPHY (4) I, II, III. On demand. Experimental courses considered part of regular offering.

GEOG 321. INTRODUCTION TO MAP COMMUNICATION (4) I, II, III. Practical map planning and construction; basic cartographic theory and use of drafting materials and equipment.

GEOG 322. THEMATIC CARTOGRAPHY (4) II, III. Quantitative and qualitative data; statistical or thematic maps.

GEOG 323. RESEARCH METHODS III (4) I. Geographic research techniques; quantitative methods of describing and analyzing spatial distributions.

GEOG 325. POPULATION GEOGRAPHY (4) I, II. Spatial analysis of size, distribution, density, migration, age-sex composition, and dynamic factors of change in major world population regions and sub-regions.

GEOG 326. COMMUNITY PLANNING FOR THE ELDERLY (4) III. Housing, shopping, and transportation problems of urban and rural elderly; development of programs to meet needs of elderly.

GEOG 327. DELIVERY OF SOCIAL SERVICES: GEOGRAPHIC PERSPECTIVES (4) II. Delivery of social services to subnational geographic areas; design and monitoring of delivery systems by examination of specific social programs and problems, such as those related to poverty, crime, health, and needs of elderly.

GEOG 331. PRINCIPLES OF CONSERVATION ECOLOGY (4) I, II. Principles necessary in considering environmental problems and application to various aspects of conservation; interdisciplinary approach combining social, biological, and physical sciences.

GEOG 332. GEOGRAPHY OF PLANTS AND ANIMALS (4) II or III. Factors controlling spatial patterns of terrestrial plant and animal species and man's role in formation of these patterns.

GEOG 333. GEOGRAPHY OF RECREATION (4) II. Spatial aspects of outdoor recreation; assessment of present and future recreational resources; space for urban and rural areas, accessibility of these resources, governmental policies, and tourism.

GEOG 334. GEOGRAPHY OF DISEASES (4) II, III. Past and present spatial distribution of diseases; cultural and environmental impacts in distribution, transmission, and causes of diseases in different regions of world.

GEOG 335. GEOGRAPHY OF HUMAN MIGRATIONS (4) III. Causes and consequences of selected historical and contemporary human migrations, both international and internal; spatial analysis of characteristics of migration streams and places of origin and destination.

GEOG 341. SOVIET UNION (4) III. Description and interpretation of geographic factors related to present development.

GEOG 342. EASTERN EUROPE (4) II. Nations of eastern Europe; description and interpretation of geographic factors related to present development.

GEOG 343. WESTERN EUROPE (4) I, II, III. Geographic aspects in understanding present-day status of countries of Western Europe.

GEOG 344. EASTERN ASIA (4) I. Problems and factors influencing development of countries of eastern Asia; emphasis on China and Japan.

GEOG 345. SOUTHERN AND SOUTHEAST ASIA (4) II. Countries extending from Philippine Islands to Pakistan; different cultures, utilization of resources, future opportunities, and problems of development.

GEOG 346. MIDDLE EAST (4) I. Contemporary problems of Middle East; petroleum development and impact on society, food needs, population problems, and spatial characteristics of religious and linguistic groups.

* **GEOG 347. AFRICA** (4) III. Geographic factors influencing development of African countries.

GEOG 348. MEXICO, CENTRAL AMERICA AND THE CARIBBEAN (4) III. Problems related to contemporary development of societies of Mexico, Central America, and West Indies.

GEOG 349. SOUTH AMERICA (4) II. Problems related to contemporary development of societies of continental South America.

GEOG 350. ANGLO-AMERICA (4) I, II, III. Problems and factors influencing development of U.S. and Canada.

GEOG 351. OHIO (4) I, II, III. Historical, physical, economic, and social problems related to development of Ohio.

GEOG 400. SPECIAL TOPICS IN GEOGRAPHY (4) I, II, III. On demand. Experimental courses considered part of regular offering.

GEOG 402. REGIONAL ECONOMIC GEOGRAPHY (4) II. Problems of subnational areal units in county and regional planning, poverty pockets, delivery of services; emphasis on individual projects.

GEOG 404. CLIMATOLOGY (4) II. Fundamentals and applications; drought, water resources, human comfort, health, architecture; short and long-term climatic changes.

GEOG 405. METEOROLOGY AND MAN (4) III. Sociological, political, planning, and legal aspects of atmosphere as natural resource. Prerequisite: GEOG 125 or GEOG 213.

GEOG 408. GEOGRAPHIC CONCEPTS, TECHNIQUES, AND TRENDS (4) III. New developments, theories, concepts, and techniques in geography as related to geographic education; presentation of cartographic quantitative techniques and conceptual approach.

GEOG 410. FIELD TECHNIQUES (4) III. Instruction and practice in techniques of field data collection and interpretation. Physical and cultural elements of landscape investigated; emphasis on rural land use systems.

GEOG 411. THEORETICAL CARTOGRAPHY (4) II. Analysis of cartographic research. Six hours per week; two hours lecture or discussion and four hours of laboratory. May be repeated once upon consent of instructor. Prerequisite: GEOG 322 or consent of instructor.

GEOG 412. USE AND INTERPRETATION OF AERIAL PHOTOGRAPHS (4) II. Sources, types, characteristics, uses, and limitations of aerial photographs. Training in use of standard equipment for stereoscopic viewing and height measurement.

GEOG 413. INTRODUCTION TO REMOTE SENSING (4) III. Principles and procedures used to obtain information about natural and cultural features through imagery derived from photographic, multispectral, and side-looking airborne radar sensor systems. Prerequisite: GEOG 412 or consent of instructor.

GEOG 422. COMPUTER MAPPING (4) III. Map construction and display of geographical data using the computer. Prerequisite: CS 101 or consent of instructor.

GEOG 425. FOOD RESOURCES AND RURAL DEVELOPMENT (4) III. Changes and trends in availability, production, and consumption of food resources; related rural problems such as pollution, zoning, recreation, and future expectations of rural areas by urban populations.

GEOG 426. THE AMERICAN CITY (4) I. Internal organization of cities. Ecological and land use problems, ghetto development, urban-economic base, urban sprawl, and intra-urban delivery of services.

GEOG 427. GENETIC AND REGIONAL ANALYSIS OF PHYSICAL LANDSCAPES (4) II. Selected aspects of physical geography (excluding meteorology and climatology); indepth analysis of man's natural environment. Prerequisites: GEOG 126 and GEOG 127, or consent of instructor.

GEOG 430. WORLD CULTURES IN TRANSITION (4) I, II, III. Guided individual investigations of selected aspects of cultural geography. For advanced undergraduates or graduates.

GEOG 433. SOIL CLASSIFICATION AND MAPPING (4) III. Classification of soils; use of soil survey equipment; preparation of soil type, slope, and erosion maps of assigned areas. Prerequisite: GEOG 126 or permission of instructor.

GEOG 436. TOPICS IN COMMUNITY AND AREA DEVELOPMENT (4) III. Field analysis of various problems and topics of urban and rural areas. Prerequisite: GEOG 402 or GEOG 426.

GEOG 442. CONSERVATION: RESOURCES AND REGIONAL DEVELOPMENT (4) III. Problems of area development in relationship to cultural, economic, and physical resources; obstacles to present development, needed changes, and potentials for future growth.

GEOG 451. HISTORICAL GEOGRAPHY OF ANGLO-AMERICA (4) I. Reconstruction of natural environment of U.S. and Canada; how different groups perceived environment and used available resources; emphasis on how man has modified earth's surface.

GEOG 452. GEOPOLITICS (4) I, II. Geographic factors influencing development of states and interrelationship of these countries.

GEOG 460. HYDROLOGY (4) I. Water's role in geography, environmental systems. Hydrologic phenomena analyzed on basis of scientific interdependence, phases of hydrologic cycle, practices and applications, and socio-economic aspects. Prerequisite: GEOG 125 or GEOG 126 or GEOG 127.

GEOG 464. MICROCLIMATOLOGY (4) III. Study of atmospheric layer near ground; investigations of actual microclimates, relations of microclimate to plants, animals, man, topography, buildings, cities. Prerequisite: GEOG 213 or GEOG 404.

GEOG 471. OCEANOGRAPHY (4) III. Geographic aspects of oceanography.

GEOG 489. INTERNSHIP (4) I, II, III, IV. Provides practical experience in applied geography, such as land use planning; urban and rural planning; recreational, regional, and environmental planning; and location of industrial, commercial, and health service facilities. May be repeated. Only eight hours may be applied to GEOG major or minor; additional hours are for general elective. Graded S/U.

GEOG 490. SPECIAL PROBLEMS IN GEOGRAPHY (1-4). On demand. Readings and research on varied topics to suit needs of student.

Geology (GEOL)

* **GEOL 100. INTRODUCTION TO GEOLOGY** (4) I, II, III. The earth; physical and historical geology; economic, social, and philosophical aspects. Not open to geology majors or minors.

GEOL 101. EARTH SCIENCE (4) I, II, III. Earth's geology, oceanography, meteorology, and place in the universe. Four lectures. Credit not given for both GEOL 101 and GEOL 100.

* **GEOL 103. EARTH MATERIALS** (4) I, II, III. Common rocks and minerals and mode of occurrence and origin. Three lectures and one two-hour laboratory. One field trip required. Credit not given for both GEOL 100 and GEOL 103.

* **GEOL 104. OUR CHANGING LANDSCAPES** (4) I, II, III. Physical processes operating on and in earth; land forms and geologic structures. Three lectures and one two-hour laboratory. One field trip required. Credit not given for both GEOL 100 and GEOL 104.

* **GEOL 105. OUR PREHISTORIC EARTH** (4) I, II, III. Stratigraphy, time, and evolution upon which reconstruction of geologic history is based. Three lectures and one two-hour laboratory. One field trip required.

* **GEOL 110. INTRODUCTION TO ASTRONOMY** (4) I, II, III. Solar system, local stars and clusters, nebulae, galaxies, and universe; modern cosmogonies and limitations for existence and evolution of life. Not open to students with credit for ASTR 110.

★ **GEOL 205. GEOLOGIC HISTORY OF MAN** (4) I, III.

Evolution, classification, distribution, paleoecology, and geologic history of prehistoric hominids. Four lectures.

GEOL 302. INVERTEBRATE PALEONTOLOGY (4) I.

Fossil invertebrates; morphology, phylogeny, classification, identification. Three lectures and one two-hour laboratory. One field trip required. Credit given for either GEOL 302 and GEOL 303, or GEOL 305.

Prerequisite: GEOL 100 or consent of instructor.

GEOL 303. INVERTEBRATE PALEONTOLOGY (4) II.

GEOL 302 continued.

★ **GEOL 304. GEOLOGY OF THE NATIONAL PARKS** (5) II.

U.S. regional geology as illustrated in national park system. Four lectures and one two-hour laboratory.

Prerequisite: GEOL 100, or GEOL 103 and GEOL 104.

★ **GEOL 305. LIFE OF GEOLOGIC PAST** (4) II.

Nontechnical study of fossils and factors that influenced progressive development of life through geologic time. Three lectures, two-hour discussion-demonstration-laboratory. For nonscientists; not open to geology majors in B.S. degree program; not open to students with credit for GEOL 302 or GEOL 303. Prerequisite: GEOL 100 or GEOL 101 or GEOL 105.

GEOL 306. ROCKS AND MINERALS (5) III. Nontechnical

study of earth materials as illustrated by gems, minerals, and rocks. Two two-hour lectures, one two-hour laboratory. Prerequisite: GEOL 100 or GEOL 103. Not open to geology majors in B.S. degree program. Credit given for either GEOL 306, or GEOL 311 and GEOL 312.

GEOL 307. SEDIMENTARY PETROLOGY (4) II.

Classification, origin, megascopic identification, and laboratory analysis of sedimentary rocks. Two lectures and two two-hour laboratories. Prerequisite: GEOL 311.

GEOL 308. PRINCIPLES OF STRATIGRAPHY (4) III.

Principles of stratigraphy and reconstruction of depositional environments. Construction and interpretation of stratigraphic diagrams. Three lectures and one two-hour laboratory. Prerequisite: GEOL 307.

GEOL 309. STRUCTURAL GEOLOGY (4) III.

Identification and interpretation of geologic structures; mechanical principles of deformable bodies, fracture and faulting, flow and folding; elementary concepts of tectonics. Three lectures and one three-hour laboratory. Prerequisites: GEOL 100 or GEOL 104, and PHYS 131 or PHYS 214, and working knowledge of trigonometry.

GEOL 310. GEOMORPHOLOGY (4) I. Nature and

classification of landforms and processes that produce them; sequential development of landforms in relation to varied geologic structures, rocks, and climates. Two field trips required. Prerequisites: GEOL 103 and GEOL 104.

GEOL 311. MINERALOGY (4) I. Minerals; association,

genesis, and classification. Two lectures and two two-hour laboratories. Prerequisite or corequisite: CHEM 121 or CHEM 131. Credit given for either GEOL 306, or GEOL 311 and GEOL 312.

GEOL 312. MINERALOGY (4) II. GEOL 311 continued.

Crystallography and crystal chemistry; x-ray diffraction techniques. Prerequisite: GEOL 311.

GEOL 320. IGNEOUS PETROLOGY (4) I. Genesis,

distribution, and classification. Three lectures and one two-hour laboratory. Prerequisite: GEOL 311.

Prerequisite or corequisite: CHEM 122 or CHEM 123.

GEOL 321. METAMORPHIC PETROLOGY (4) II. Origin,

mode of occurrence, and classification. Two lectures and two two-hour laboratories. Prerequisites: GEOL 307 and GEOL 320.

GEOL 393. FIELD METHODS (3) III. Use of instruments

and methods applied to field problems in geology. Open to students planning to take GEOL 493 or GEOL 494. One three-hour laboratory. Two field trips required. Prerequisite: consent of instructor.

GEOL 401. ECONOMIC GEOLOGY (4) III alternate years.

Classification and genesis of metallic mineral deposits illustrated by study of classic areas. Three lectures and one three-hour laboratory. Field trip required.

Prerequisites: GEOL 309 and GEOL 320.

GEOL 402. NUMERICAL APPLICATIONS IN PHYSICAL

SCIENCES (1-3) II. Computational techniques applied to contemporary physical science problems. Prerequisites: MATH 131, and CS 400 or equivalent, and introductory sequence of three courses in CHEM, PHYS, or GEOL.

GEOL 411. OPTICAL MINERALOGY (4) I. Optical

properties and methods of studying crystalline materials. Two lectures and two two-hour laboratories.

Prerequisites: GEOL 311 and GEOL 312.

GEOL 412. ADVANCED HISTORICAL GEOLOGY (4) III.

Regional geologic history illustrated by classical areas, particularly in North America, Australia, and Europe; environmental reconstruction, depositional cycles, and basin analysis. Four lectures. Prerequisites: GEOL 308 and senior standing.

GEOL 416. PETROLEUM GEOLOGY (4) I alternate years.

Subsurface geology as illustrated by exploration for oil and gas. Three lectures and one three-hour laboratory. Prerequisites: GEOL 308 and GEOL 309.

★ **GEOL 418. GEOLOGY OF OHIO** (4) I. Bedrock and

surficial geology of Ohio; state's economic mineral resources. Three lectures. One two-hour laboratory. Three full-day field trips required. Credit not given for the M.S. degree in geology. Prerequisites: GEOL 100, or GEOL 103 and GEOL 104 and GEOL 105.

GEOL 419. VERTEBRATE PALEONTOLOGY (5) II

alternate years. Fossil vertebrates and their morphology, classification, and evolution. Four lectures and one two-hour laboratory. Two field trips required. Credit not given for both GEOL 419 and GEOL 305. Prerequisite: GEOL 100 or GEOL 105 or BIOL 202.

GEOL 421. HUMAN ENVIRONMENTAL GEOLOGY (4) II.

Aspects of geology critical to wise use of human environment. One half-day field trip required. Prerequisites: GEOL 103 and GEOL 104.

GEOL 422. ENVIRONMENTAL GEOLOGY REPORT

WRITING (2) II. Preparation of environmental geology report for an Ohio township, copy of which goes to township officials. Several individual field trips to area. Corequisite: GEOL 421.

GEOL 431. INTRODUCTION TO GEOCHEMISTRY (4) I

alternate years. Principles of mass action, acidity, solubility, and introductory thermodynamics; applications to natural systems. Prerequisite: CHEM 123.

GEOL 432. GEOPHYSICS (3) II alternate years.

Earthquake seismology; gravity, magnetic, and temperature fields of earth; paleomagnetism; radio-active dating; plate tectonics. Three lectures. Prerequisites: GEOL 309, and PHYS 131 or PHYS 214, and MATH 131; or consent of instructor.

GEOL 433. STRATIGRAPHIC CHRONOLOGY (4) II

alternate years. Biochronology, evolution, and distribution of fossil faunas through geologic time. Three lectures, one three-hour laboratory. Prerequisites: GEOL 303 and GEOL 308.

GEOL 472. MARINE GEOLOGY AND PALEOBIOLOGY

(3-4) I alternate years. Processes, sediments, and organisms of modern marine environments; interrelationships and expression in rock record. Four lectures. Prerequisite: consent of instructor.

GEOL 473. FIELD EXPERIENCE IN MARINE GEOLOGY

AND PALEOBIOLOGY (1-2) I alternate years. Field experience in marine environments as related to geologic record. Prerequisite or corequisite: GEOL 472, consent of instructor.

GEOL 475. WORKSHOP IN SEISMOLOGY (1-2) I, II, III. Supervised program in theory of seismology, operation of seismological observatory, interpretation of seismic records. May be repeated to eight hours. Prerequisite: consent of instructor. Graded S/U.

GEOL 480. SEMINAR IN GEOLOGY (3) I, II, III. Study of selected topic. May be repeated to six hours. Prerequisite: consent of instructor.

GEOL 483. PHYSICAL MARINE GEOLOGY (5) IV. Geological processes, sedimentary environments, geomorphical features of marine coastal, intertidal, and near-shore zones. Prerequisites: physical and historical geology. Taught at Gulf Coast Research Laboratory. Additional information can be obtained from marine science coordinator, Department of Biological Sciences.

GEOL 484. CHEMICAL MARINE GEOLOGY (5) IV. Supervised research on chemistry of coastal waters of Mississippi and geochemistry of bottoms. Prerequisites: physical and historical geology, mineralogy, and analytical chemistry. Taught at the Gulf Coast Research Laboratory. Additional information can be obtained from marine science coordinator, Department of Biological Sciences.

GEOL 490. GEOLOGICAL PROBLEMS (1-4) I, II, III, IV. Individual work for advanced student who has shown proficiency and marked degree of independence in work. May be repeated to six hours. Prerequisite: consent of instructor.

GEOL 493. FIELD EXPERIENCE (6-9) IV. Recognition and study of geologic structures, land forms, and rock units in field. Written report required. Not open to B.S. geology majors. Prerequisite: GEOL 103 and GEOL 104 and GEOL 105, or GEOL 304; consent of instructor.

GEOL 494. FIELD GEOLOGY (6-9) IV. Principles and practice of field geology and geologic mapping. Final map and report required. Prerequisites: GEOL 308 and GEOL 309 and consent of instructor.

GEOL 496. FIELD COURSE IN MODERN MARINE ENVIRONMENTS (1-9) IV. Field study of shallow-water marine environments; ecology of paleontologically significant organisms and interrelationships with depositional environments; sediments and environment. Prerequisite: consent of instructor.

German (GERM)

Entering students who had German in high school should take the placement test during summer preregistration or prior to enrollment in a course.

GERM 100. INTRODUCTION TO LANGUAGE STUDIES: GERMAN (2) I, II, III. Lecture-reading course in English introducing student to language study. Comparison and contrast of cognate vocabulary, structure, and syntax of English and German. Suggested as a supplemental course to accompany GERM 101-103 series, or may be taken independently.

***GERM 101. ELEMENTARY GERMAN** (4) I, II, III. Beginning study of modern German. Four class periods and scheduled oral practice.

***GERM 102. ELEMENTARY GERMAN** (4) I, II, III. GERM 101 continued. Prerequisite: GERM 101 or one year of German in high school or equivalent.

***GERM 103. ELEMENTARY GERMAN** (4) I, II, III. GERM 102 continued. Prerequisite: GERM 102 or two years of German in high school or equivalent.

GERM 117. BEGINNING CONVERSATIONAL GERMAN (2) I, II. Basic conversational German based on *Guten Tag* film series. Suggested as supplemental course to accompany GERM 101-103 series, or may be taken independently. Not open to students who have completed GERM 103.

GERM 118. BEGINNING CONVERSATIONAL GERMAN (2) II, III. Continuation of GERM 117. Prerequisite: GERM 117 or GERM 101 or permission of instructor. Not open to students who have begun or completed GERM 103.

GERM 119. BEGINNING CONVERSATIONAL GERMAN (2) III. Continuation of GERM 118. Prerequisite: GERM 118 or GERM 101 or permission of instructor. Not open to students who have begun or completed GERM 201.

***GERM 201. INTERMEDIATE GERMAN** (4) I, II. Continued study of modern German. Four class periods and scheduled oral practice. Prerequisite: GERM 103 or three years of German in high school.

***GERM 202. INTERMEDIATE GERMAN** (4) II, III. Continuation of GERM 201. Prerequisite: GERM 201.

GERM 217. INTERMEDIATE CONVERSATIONAL GERMAN (2) III. Practice in conversation on intermediate level. Two class periods and scheduled oral practice. Prerequisite: GERM 103.

GERM 218. INTERMEDIATE CONVERSATIONAL GERMAN (2) II. Based on *Guten Tag, wie geht's* film series. Suggested as supplemental course to accompany GERM 201-202 series, or may be taken independently. Prerequisite: GERM 103 or equivalent.

GERM 219. INTERMEDIATE CONVERSATIONAL GERMAN (2) III. GERM 218 continued. Prerequisite: GERM 201 or permission of instructor.

GERM 231. SCIENTIFIC AND TECHNICAL READING (4) II. Development of reading and translating proficiency in scientific, technical, and expository prose, as found in sciences and humanities. Vocabulary building, analysis of syntax, and grammar for reading purposes. Prerequisite: GERM 103.

GERM 260. MODERN GERMAN LITERATURE IN TRANSLATION (4) I, II, III. Readings in English of internationally known authors from German-speaking countries. May include Kafka, Mann, Hesse, Brecht, Grass, others. Does not count toward German major or minor in arts and sciences or education.

GERM 300. INTRODUCTION TO STUDY ABROAD (1) III. Preparation for study abroad. Limited to Salzburg and German Exchange Program participants. Graded S/U. Does not count toward German major or minor.

GERM 311. GERMAN LITERATURE OF 20TH CENTURY (4) III. Major authors and movements in German literature since 1900; drama, shorter prose forms, and lyric poetry. Prerequisite: GERM 202.

GERM 312. GERMAN LITERATURE OF 19TH CENTURY (4) I. Major authors and movements from death of Goethe to 1890's. Selected readings from works of Grillparzer, Buechner, Hebbel, Heine, Moerike, others. Prerequisite: GERM 202.

GERM 313. ENLIGHTENMENT AND THE AGE OF GOETHE (3) II. Literary works and movements from mid-18th century and Storm and Stress through Goethe's classical period; Lessing, Goethe, Schiller, Kleist. Prerequisite: GERM 311 or GERM 312.

GERM 315. GERMAN CULTURE AND CIVILIZATION (4) I, II, III. Cultural-historical background considering social, intellectual, and artistic life of German-speaking peoples from medieval times to World War II. Lectures in English.

GERM 316. CONTEMPORARY GERMAN LIFE (4) I, II, III. Lecture-reading course in English on contemporary East and West Germany. Treats rebuilding and development of two German states from 1945 to present; political and social systems, geography, education, cultural life, mass media, patterns of daily living.

*Credit toward graduation is not allowed for GERM 102, GERM 103, GERM 201, GERM 202 when the equivalent credit has been accepted from high school as part of the admission credits except that a student is allowed to duplicate one unit of high school study with university credit.

GERM 317. COMPOSITION AND CONVERSATION (4) I. Extensive practice in speaking and writing German. (May be repeated for credit in AYA Salzburg Program.) Prerequisite: GERM 202.

GERM 318. COMPOSITION AND CONVERSATION (4) II. GERM 317 continued. (May be repeated for credit in AYA Salzburg Program.) Prerequisite: GERM 317 or permission of instructor.

GERM 319. GERMAN PHONETICS AND PRONUNCIATION (3) III. Practice and theory of German pronunciation; introduction to phonetic principles (transcription and identification of language sounds). Prerequisite: GERM 202, GERM 317 and GERM 318 recommended.

GERM 325. GERMAN FOLKLORE (3). On demand. Various genres of verbal folklore; folk literature and relation to formal culture and literature of German-speaking peoples. Prerequisite: reading knowledge of German or GERM 202. POPC 421 recommended.

GERM 331. WORKSHOP IN TRANSLATION (4) III. Small group work in German to English translation of scientific, technical or business writing, or other types of expository prose in student's specialty. May be repeated to eight hours with different projects. Prerequisite: GERM 231, or GERM 201 with permission of instructor.

GERM 360. LITERATURE IN TRANSLATION (4) I, II, III. Variable topic course on German literature in translation; may center on authors, periods, genres, or on such themes as ideals of freedom and revolution, war, socialism, sanity and insanity, nature versus technology, religion, crime and punishment, love and sexuality. May be repeated to eight hours with different topics. Prerequisite: previous literature course in any department, or permission of instructor. (Does not count toward German major or minor in arts and sciences or education.)

GERM 380. TOPICS IN GERMAN THOUGHT AND CULTURE (1-4). Topic chosen to meet curriculum needs and student requests. May be repeated to eight hours with different topics. Prerequisites or corequisites: GERM 317, and GERM 311 or GERM 312 or GERM 331.

GERM 407. CLASSICAL AGE OF GERMAN LITERATURE (4) I alternate years. Selected works from classical period of German literature, especially writings of Goethe and Schiller. Prerequisite: two courses from GERM 311 and/or GERM 312 and/or GERM 313, and GERM 317.

GERM 409. GERMAN ROMANTICISM (4) III alternate years. Readings from major authors of romantic era; introduction to theoretical and philosophical representatives. Prerequisite: two courses from GERM 311 and/or GERM 312 and/or GERM 313, and GERM 317.

GERM 410. GERMAN REALISM (4) II. Major trends of German 19th century literature; drama and important prose forms, such as Novelle. Prerequisite: two courses from GERM 311 and/or GERM 312 and/or GERM 313, and GERM 317.

GERM 411. 20TH CENTURY DRAMA (4) III alternate years. Modern German drama in major representatives from G. Hauptmann to present. Prerequisite: two courses from GERM 311 and/or GERM 312 and/or GERM 313, and GERM 317.

GERM 412. CONTEMPORARY GERMAN PROSE (4) III alternate years. Development of German literary prose from about 1900 to present. Prerequisite: two courses from GERM 311 and/or GERM 312 and/or GERM 313, and GERM 317.

GERM 415. CULTURAL AND LITERARY ASPECTS OF GERMAN FILM (4). On demand. Important developments in German film-making. Interrelationship of literary and cultural phenomena and film. Historical development or thematic aspects of film, such as movement of expressionism and early German silent films, or new leftist movement in Germany and its expression through film media.

GERM 417. ADVANCED COMPOSITION AND CONVERSATION (4) I. Development of increased facility in speaking and writing. (May be repeated for credit in AYA Salzburg Program.) Prerequisite: GERM 318 or permission of instructor.

GERM 418. STYLISTICS, SYNTAX, AND STRUCTURE OF GERMAN (4) II. Practice and problems of German writing style and syntax. Descriptive study of grammatical structures; contrastive analysis of English and German. (May be repeated for credit in AYA Salzburg Program.) Prerequisite: GERM 318 and GERM 319, or GERM 417, or permission of instructor.

GERM 419. GERMAN DRAMA WORKSHOP (3) III. Practical advanced linguistic training through active participation in theatrical projects. Advanced phonetics. Methods of utilizing theatrical productions as part of foreign language instruction. Prerequisite: GERM 417.

GERM 431. ADVANCED GERMAN-ENGLISH TRANSLATION (1-4). On demand. Analysis and application of translating techniques; attention to levels and areas of style. Intensive general practice followed by work on individual projects. May be repeated to eight hours with different projects. Prerequisite: eight hours from GERM 317 and/or GERM 318 and/or GERM 331.

GERM 432. ADVANCED ENGLISH-GERMAN TRANSLATION (1-4). On demand. Analysis and application of translating techniques. Expansion of working vocabulary and idiomatic basis in German. Treatment of structural differences between languages through error analysis. General practice; individual projects. May be repeated to eight hours. Prerequisites: eight hours from GERM 317 and/or GERM 318 and/or GERM 331.

GERM 461. MEDIEVAL GERMAN LITERATURE AND CULTURE (4) I alternate years. Precourtly and courtly literature and culture; generally include *Nibelungenlied*, Gottfried von Strassburg's *Tristan*, and Wolfram von Eschenbach's *Parzival*. Lecture and readings in English. Prerequisite: previous literature course in any department or permission of instructor.

GERM 462. MEDIEVAL PRACTICUM (1) I. Readings in original with attention to linguistic features. Required of all majors and minors enrolled in GERM 461; optional for nonmajors. Prerequisite: GERM 202 or permission of instructor.

GERM 463. GERMAN LITERATURE AND CULTURE: RENAISSANCE TO BAROQUE (4) I alternate years. German literature and culture from late Middle Ages to Reformation and Baroque periods; includes *Eulenspiegel*, Brant's *Ship of Fools*, *Dr. Faustus*, and Grimmshausen's *Simplicissimus*. Lecture and readings in English. Prerequisite: previous literature course in any department or permission of instructor.

GERM 464. PRACTICUM: RENAISSANCE TO BAROQUE (1) I. Readings in original with attention to linguistic features. Required of all majors and minors enrolled in GERM 463; optional for nonmajors. Prerequisite: GERM 202 or permission of instructor.

GERM 480. SELECTED TOPICS IN GERMAN (1-5). Topic chosen from literature, culture, or language to meet curriculum needs and student requests. May be repeated to eight hours with different topics. Prerequisite: GERM 318 and two courses from GERM 311 and/or GERM 312 and/or GERM 313 and/or GERM 331 and/or GERM 380.

GERM 482. INTRODUCTION TO GERMANIC LINGUISTICS (4) III. Derivation of modern Germanic languages from Proto-Indo-European. Classification and history of Germanic language group. Development of German language to new High German. Prerequisite: GERM 103 or permission of instructor.

GERM 491. STUDIES IN GERMAN (1-5) I, II, III. Independent study project for advanced student. May be repeated. Prerequisite: consent of instructor and department chair.

Gerontology (GERO)

GERO 410. ADMINISTRATION AND AGING (4). On demand. Public administration in field of aging; legislation, bureaucratic structures, insurance, and model programs. Prerequisite: enrollment in gerontology program and senior standing, or permission of instructor.

GERO 420. PROPOSAL WRITING IN GERONTOLOGY (2). On demand. Research potential, funding, methods, design, and proposal writing on aging. Prerequisite: enrollment in gerontology program and senior standing, or permission of instructor.

GERO 470. SPECIAL TOPICS IN GERONTOLOGY (1-4). On demand. Independent study on subject matter related to gerontology not otherwise offered. May be repeated. Prerequisite: consent of program director.

GERO 491. PRACTICUM IN GERONTOLOGY (4-16) I, II, III, IV. Experience in working under supervision in selected agency which provides services to aged. Emphasis on practice rather than observation. May be repeated. Prerequisite: enrollment in gerontology program and junior or senior standing, or permission of program director. Graded S/U.

GERO 493. PRACTICUM SEMINAR (1) I, II, III, IV. Analysis of problems and experiences encountered in practicum. Prerequisite: permission of program director. Corequisite: GERO 491. Graded S/U.

Health and Community Services (HCS)

HCS 440. SEMINAR IN HEALTH AND COMMUNITY SERVICES (1-8). On demand. Interdisciplinary study of special health and/or community service topics. May be repeated. Prerequisite: consent of dean's office.

HCS 491. FIELD EXPERIENCE IN PARASITOLOGY AND MEDICAL ENTOMOLOGY (5) I, II, III, IV. On demand. Field or clinical experience in one or more public health, industrial, or agricultural locations. May be repeated at different stations, but not for credit toward graduation beyond first registration. Prerequisite: approval of program director. Graded S/U.

HEALTH, PHYSICAL EDUCATION, AND RECREATION, SCHOOL OF

Health Education (HED)

★ **HED 109. PERSONAL HEALTH** (3) I, II, III, IV. Personal health concepts. Not open to students with credit for HED 209.

★ **HED 110. COMMUNITY HEALTH** (2) I, II, III, IV. All aspects of community health.

HED 113. CARDIOPULMONARY RESUSCITATION (CPR) (1) I, II, III, IV. Basic life support for victim of sudden cardiac arrest; lecture and laboratory. Meets two hours weekly for five weeks. Successful completion leads to certification by American National Red Cross. C/F hrs: 8.

HED 209. ADVANCED CONCEPTS OF PERSONAL HEALTH (5) I, II, III. Breadth of study appropriate to level of comprehension required of specialist in health education.

HED 230. HUMANIZING HEALTH EDUCATION (2) I, II. Theories and methods of values clarification, affective learning, transactional analysis as they relate to health teacher and student. Prerequisite: sophomore standing.

★ **HED 313. ADVANCED FIRST AID AND SAFETY EDUCATION** (4) I, II, III, IV. Accident prevention and emergency care of injuries and sudden illness. Satisfactory completion results in Red Cross certification in advanced first aid and emergency care.

★ **HED 314. FIRST AID — INSTRUCTOR'S COURSE** (2) II, III. Leads to American Red Cross first aid instructor's certificate. Prerequisites: junior standing and current Red Cross standard and advanced certificates.

HED 338. CONCEPTS OF HUMAN SEXUALITY (3) I, II, III, IV. Physiological, social, moral, and legal aspects. Prerequisite: junior standing or consent of instructor.

HED 340. DRUG USE/ABUSE (4) I, II, III. Knowledge regarding ambiguity of drugs in society; physical, psychological, social ramifications of drug use/abuse. Prerequisites: HED 209 and junior standing; or consent of instructor.

HED 346. HEALTH EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (3) I, II, III, IV. Content and techniques for teaching health education in elementary school.

HED 348. INSTRUCTIONAL TECHNIQUES IN HEALTH EDUCATION K-12 (4) I, II, III. Principles, planning, methods, materials, resources, human relations of teaching health, including provisions for individual student presentations. Should be taken concurrently with HED 349. Prerequisites: HED 110 and HED 209; or consent of instructor. C/F hrs: 15.

HED 349. TEACHING HEALTH EDUCATION (1) I, II, III. Practical experience in preparing and presenting health lessons; two hours per week. Corequisite: HED 348. Prerequisite: HED 110 and 209; or consent of instructor. C/F hrs: 20.

HED 362. DRIVER EDUCATION — BASIC INSTRUCTOR'S COURSE (5) I, II, IV. First of two courses needed to qualify student to organize, administer, and teach driver education. Prerequisite: junior standing and driver's license. Not open to elementary education major. Extra fee of \$5.

HED 393. PRACTICUM IN HEALTH EDUCATION (4) I, III. Field experience in health education in elementary and/or secondary school. Assignments include spending two full days per week in the field and attending regular seminars. Prerequisites: HED 348 and HED 313; health education major or minor. C/F hrs: 127.

HED 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated on approval of adviser.

HED 409. SCHOOL HEALTH SERVICES AND SCHOOL ENVIRONMENT (4) I, II, III, IV. School health services and school environment, principles of organization and administration of health appraisal, health counseling, communicable disease control, education adjustments, emergency programs, record keeping, safe school environment. C/F hrs: 9.

HED 462. DRIVER EDUCATION: ADVANCED INSTRUCTOR'S COURSE (4) II, III, IV. Second of two courses needed to qualify student to organize, administer, and teach driver education in secondary schools. Prerequisites: junior standing in College of Education, valid driver's license, and HED 362.

HED 470. INDEPENDENT STUDY IN HEALTH AND PHYSICAL EDUCATION (2-5) I, II, III. Project must be approved by project supervisor prior to registration. Open to majors and minors only. May be repeated.

HED 480. SEMINAR IN TEACHING CONTROVERSIAL ISSUES IN HEALTH EDUCATION (3) I, II, III. Teaching methods and procedures in discussing sex education, mental health, tobacco, alcohol, drugs.

HED 481. SENIOR SEMINAR IN HEALTH EDUCATION (3) I, II, III. Seminar approach to issues and problems faced by school health educators: content comprehension and organization; instructional dilemmas encountered in student-teaching; evaluative procedures specific to total health program.

Physical Education, General (PEG)

* **PEG 100. GENERAL PHYSICAL EDUCATION** (1) I, II, III, IV. Each freshman must fulfill the University requirement of three units from activities such as archery, curling, dance, racquetball, skiing, swimming, ice skating, diving, weight training. Most activities are coeducational. Graded S/U. Two hours per week.

* **PEG 200. GENERAL PHYSICAL EDUCATION** (1) I, II, III, IV. Elective program in diverse activities. Open to any student who has completed the University required three hours in PEG 100. Two hours per week.

Physical Education, Professional (PEP)

PEP 104, 108-123. BEGINNING ACTIVITY COURSES.

Elective program of basic skill and knowledge development within each sport and aquatics. Open to nonmajors with permission of instructor.

PEP 104. BADMINTON (1) I, II.

PEP 108. DIVING (1) III.

PEP 109. FENCING (1) I, II.

PEP 110. FIELD HOCKEY (1) I.

PEP 112. GOLF (1) I, III.

PEP 113. GYMNASTICS APPARATUS FOR WOMEN (1) I, II, III.

PEP 114. LACROSSE (1) III.

PEP 116. SOFTBALL (1) III.

PEP 117. SWIMMING (1) I.

PEP 118. SYNCHRONIZED SWIMMING (1) III.

PEP 119. TENNIS (1) I, III.

PEP 120. TRACK AND FIELD (1) I, III.

PEP 121. VOLLEYBALL (1) I, II.

PEP 122. ARCHERY (1) II.

PEP 123. SOCCER/SPEEDBALL (1) I.

PEP 105. SPORTS SKILLS AND COACHING

TECHNIQUES (3) I. Development of fundamental skills and knowledges for teaching badminton, swimming, and volleyball.

PEP 107. SPORTS SKILLS AND COACHING

TECHNIQUES (3) I, III. Development of fundamental skills and knowledges for teaching tennis, golf, and conditioning.

PEP 137. EDUCATIONAL DANCE I (2) I, II, III. Four hours a week. Dance as means of expression which interprets how body moves. Where it is in space, what it can do, and relationship present.

PEP 138. EDUCATIONAL GYMNASTICS I (2) I, II, III. Four hours a week. Functional movement and concepts underlying how body moves, where it is in space and what it can do both on and off apparatus.

PEP 161. REBOUND TUMBLING (1) I, III. Acquisition of physical skills performed on rebound tumbling apparatus, selected relative to accepted progression of difficulty appropriate to school settings with stress on mechanics of execution, safety, spotting procedures.

PEP 162. GYMNASTIC APPARATUS FOR MEN (1) II, III. Acquisition of beginning gymnastic apparatus skills, limited to olympic events, selected relative to accepted progression of difficulty in which emphasis is on principles of gymnastic movement grouped into patterns of conceptual similarity.

PEP 163. ELEMENTS OF TUMBLING AND FLOOR

EXERCISE (1) I, III. Acquisition of tumbling and floor exercise skills, selected relative to accepted progression of difficulty based upon mechanical principles of gymnastic movement grouped into patterns of conceptual similarity.

PEP 164. INTRODUCTION TO MOVEMENT ANALYSIS

(3) I, II, III. Analysis of aquatic and sport activities through application concepts and physical laws.

PEP 170. WRESTLING FUNDAMENTALS AND

TEACHING PROCEDURES (1) II. Fundamentals of wrestling.

PEP 204-221, 223. INTERMEDIATE ACTIVITY

COURSES. Elective program of intermediate skill and knowledge development within each sport and aquatics. Practical application of skill analysis, strategy, teaching, and officiating where applicable. Prerequisite: successful completion of comparable beginning level competency at BGSU for Plan I and II majors.

PEP 204. BADMINTON (2) II alternate years.

PEP 207. BASKETBALL (2) II.

PEP 208. DIVING (2) III alternate years.

PEP 209. FENCING (2) II alternate years.

PEP 210. FIELD HOCKEY (2) I alternate years.

PEP 212. GOLF (2) III alternate years.

PEP 213. GYMNASTICS APPARATUS FOR WOMEN (2) II, III.

PEP 214. LACROSSE (2) III alternate years.

PEP 216. SOFTBALL (2) III.

PEP 217. SWIMMING (2) II.

PEP 218. SYNCHRONIZED SWIMMING (2) III alternate years.

PEP 219. TENNIS (2) I.

PEP 220. TRACK AND FIELD (2) III.

PEP 221. VOLLEYBALL (2) I.

PEP 223. SOCCER (2) I.

PEP 222. ADVANCED SYNCHRONIZED SWIMMING (2)

II, III. For advanced synchronized swimmer to participate in annual production and demonstrations; choreography, lighting, publicity, and production. Laboratory hours arranged. May be repeated to eight hours. Prerequisite: consent of instructor.

PEP 225. ADVANCED LIFE SAVING (2) I, II, III.

Completion certifies student to act as official life guard. Prerequisite for Water Safety Instructor. One one-hour lecture and one two-hour laboratory.

PEP 235. PROFESSIONAL READING AND WRITING IN PHYSICAL EDUCATION (2) III.

Reading and interpretation of literature in physical education; writing professional paper; treatment of pertinent statistical techniques. Prerequisite: ENG 112.

PEP 237. TEACHING EDUCATIONAL DANCE TO

CHILDREN (3) III. Children's dance; methodology, progression, program content. Prerequisite: PEP 137. C/F hrs: 15.

PEP 238. TEACHING EDUCATIONAL GYMNASTICS TO

CHILDREN (3) II. Educational gymnastics; progression, program content, methodology. Prerequisite: PEP 138. C/F hrs: 21.

PEP 241. EDUCATIONAL GAMES TEACHING TO

CHILDREN (3) III. Structure and teaching progression of games for elementary school child; social, motor, and cognitive aspects of games. Four hours a week.

PEP 247. PRACTICAL EXPERIENCE (4) I, III.

Supervised field experience with 11-18 age group. Not open to first or second quarter freshmen. Prerequisite: PEP 164. Corequisite: SPCH 102 and L&EM 301.

PEP 254. SURVEY OF PHYSICAL EDUCATION IN

ELEMENTARY SCHOOL (3) I, III. Philosophy, objectives, program, methods, evaluation, and developmental motor patterns of young child. Prerequisites: PEP 137 and PEP 138. Not open to students with credit for PEP 428 or PEP 342.

PEP 256. CONCEPTS OF PHYSICAL EDUCATION (3) I, II. Introduction to profession of physical education; objectives of physical education, elementary school and secondary school physical education, career opportunities. Physical education majors and minors only.

PEP 261-271. ADVANCED SPORTS SKILLS AND COACHING TECHNIQUES.

PEP 261. BASKETBALL (3) I. Development of skills, knowledge, strategy, and teaching ability for basketball.

PEP 262. BASEBALL (3) I. Development of skills, knowledge, strategy, and teaching ability for baseball.

PEP 263. SOCCER (3) I. Development of skills, knowledge, strategy, and teaching ability for soccer.

PEP 264. GYMNASTICS (3) II. Development of skills, knowledge, strategy, and teaching ability for gymnastics.

Prerequisites: PEP 161 and PEP 162 and PEP 163.

PEP 265. SWIMMING AND DIVING (3) II. Development of skills, knowledge, strategy, and teaching ability for swimming. Prerequisite: PEP 105.

PEP 266. FOOTBALL (3) III. Development of skills, knowledge, strategy, and teaching ability for football.

PEP 267. ICE HOCKEY. Development of skills, knowledge, strategy, and teaching ability for ice hockey.

PEP 268. LACROSSE (3) III. Development of skills, knowledge, strategy, and teaching ability for lacrosse.

PEP 269. TRACK AND FIELD (3) III. Development of skills, knowledge, strategy, and teaching ability for track and field.

PEP 270. WRESTLING (3) III. Development of skills, knowledge, strategy, and teaching ability for wrestling. Prerequisite: PEP 170.

PEP 271. TENNIS (3) I. Development of skills, knowledge, strategy, and coaching ability for tennis.

PEP 302. STRUCTURAL KINESIOLOGY (4) I, II, III, IV. Functional anatomy as related to normal and abnormal movements. Osteology, myology, arthrology, and peripheral nervous systems. Two one-hour lectures and two two-hour laboratories. Prerequisite: sophomore standing.

PEP 303. BIOMECHANICS (4) I, II, III. Human motion through examination of internal and external forces acting on the body. Prerequisites: PEP 164 and PEP 302.

PEP 322. RED CROSS WATER SAFETY — INSTRUCTOR'S COURSE (WSI) (3) II, III. Completion certifies student to conduct and certify Red Cross Swimming and Life Saving Courses except WSI. Prerequisite: current Advanced Life Saving Certificate, evidence of teaching need, and consent of instructor.

PEP 332. TEACHING-LEARNING PROCESS (4) I. Analysis of student-teacher behavior through in-school experiences; developing and improving teacher-learning effectiveness; personal assessment; development of techniques.

PEP 333. LABORATORY EXPERIENCES WITH CHILDREN (2) I, II, III. Observation and work with children in school setting; observing student-teacher behavior, assisting teacher, working with individual children. May be repeated to six hours. C/F hrs: 40.

PEP 340. MOTOR DEVELOPMENT (4) III. Physical growth and motor development of human body; rapid anatomic growth periods in early and late childhood, development patterns, observation of children.

PEP 342. PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS (4) I, II, III, IV. For classroom teacher. Principles, objectives, curriculum, and instructional and resource materials. Not open to student with credit for PEP 332.

PEP 350. MOTOR LEARNING (4) I, II, III. Perception, learning motivation, other psychological factors of motor learning and performance. Prerequisite: PSYC 201.

PEP 352. INSTRUCTIONAL TECHNIQUES IN SECONDARY PHYSICAL EDUCATION (4) I, II, III. Principles, objectives, teaching methods, resources, classroom management, classroom procedure, lesson planning, curriculum, and field experience in secondary school physical education. Prerequisite: EDFI 302 or consent of instructor.

PEP 356. PHILOSOPHICAL AND CULTURAL BASIS OF PHYSICAL EDUCATION (4) II, III. Philosophy and culture pertinent to shaping of physical education as discipline.

PEP 360. EXERCISE PHYSIOLOGY (4) II, III. Current concepts relating to physiology of human movement; identification and examination of integrated human functions; adaptive mechanisms in operation during stress of muscular activity. Three lectures and one two-hour laboratory a week. Prerequisite: BIOL 331 and BIOL 332.

PEP 372. TEACHING MOTOR ACTIVITY (5) II, III. Principles, objectives, lesson planning, instructional materials, teaching methods, curriculum, and field experience in physical education in secondary schools. Five hours a week. Prerequisites: PEP 350 and EDFI 302 and admission to secondary school physical education concentration.

PEP 387. PRACTICUM (1-8) I, II, III. Practicums available in each program area below are under supervision of Physical Education - Professional Division (PEP). Petitioning and approval required of each student before registration. Credit hours for each experience approved separately for program area offering practicum. Specific minimum number of credits may be required in various program areas - check requirements with senior check-list and/or adviser or area heads. Practicums available in following areas:

387a. ADAPTED PHYSICAL EDUCATION

387f. ELEMENTARY SCHOOL PHYSICAL EDUCATION

387d. SECONDARY SCHOOL PHYSICAL EDUCATION
C/F hrs: 30.

PEP 392. PRACTICUM IN PHYSICAL EDUCATION (3) I, II, III. Field experience in physical education in public schools. Weekly assignments include being in public school two full days and attending regular seminars. Prerequisites: PEP 313 and PEP 352 and junior standing. Extra fee.

PEP 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated on approval of adviser.

PEP 402. ASSESSMENT AND EVALUATION IN PHYSICAL EDUCATION (4) I, II, III. Assessment and evaluation principles and techniques applied to the learner and programs in physical education. Three lecture and two laboratory hours.

PEP 412. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND INTERSCHOOL ATHLETICS (4) II, III. Organization and administration of total physical education program including intramurals, extramurals, and interscholastic athletics. Prerequisite: senior standing. EDCO 331 recommended.

PEP 428. THE MOVEMENT APPROACH TO TEACHING PHYSICAL EDUCATION TO CHILDREN (8) II. Selection, design, and application of learning experiences appropriate for elementary school child based on movement concepts. Prerequisite: PEP 332. C/F hrs: 100

PEP 433. FUNDAMENTALS OF ADAPTED PHYSICAL EDUCATION AND RECREATION (4) I, II, III, IV. Principles, objectives, and history. Disabilities in relation to movement, instructional and resource materials, observations, and field trips. C/F hrs: 35.

PEP 434. MOVEMENT WITHOUT SIGHT (3) III and on demand. Implications of movement and physical activity for visually handicapped; role of vision in determining physical activity; developmental aspects relating to motor area. Prerequisite: senior or graduate standing.

PEP 435. MOTOR PERFORMANCE OF EXCEPTIONAL CHILDREN (4). Relationship of neuro-muscular patterns to movement of exceptional children; theory; practical field work in programming for exceptional people.

PEP 438. SEMINAR IN ELEMENTARY SCHOOL PHYSICAL EDUCATION (3) I. Identification and examination of selected current problems and issues in elementary school physical education. Prerequisites: EDCO 331 and PEP 428. C/F hrs: 30.

PEP 443. PHYSIOLOGICAL EFFECTS OF MOTOR ACTIVITY (4) II, IV. Physiological adaptation to exercise; metabolic and cardiovascular components, heat stress, body composition, other related topics. Includes laboratory experiences. Prerequisite: BIOL 332.

PEP 461. HISTORY OF PHYSICAL EDUCATION (4) II. Seminar course with opportunity for class discussion and individual research.

PEP 468. SECONDARY SCHOOL PHYSICAL EDUCATION SEMINAR (3) II, III. Problems and development of total physical education program at secondary school level. Prerequisites: EDCO 331 and PEP 372.

PEP 470. INDEPENDENT STUDY IN PHYSICAL EDUCATION (2-5) I, II, III, IV. Project must be approved by project supervisor and program area chair prior to registration. May be repeated.

PEP 487. PRACTICUM (1-8) I, II, III. Practicums available in each program area below are under supervision of Division of Physical Education - Professional (PEP). Petitioning and approval required of each student before registration. Credit hours for each experience approved separately for program area offering practicum. Specific minimum number of credits may be required in various program areas - check requirements with senior check-list and/or adviser or area heads. Practicums available in following program areas:

487a. ADAPTED PHYSICAL EDUCATION

487f. ELEMENTARY SCHOOL PHYSICAL EDUCATION

487d. SECONDARY SCHOOL PHYSICAL EDUCATION

PEP 490. SEMINAR IN PHYSICAL EDUCATION (4) III. Current issues and trends in physical education; supplemented by individual study. Prerequisite: PEP 332 or PEP 372.

Recreation And Dance (RED)

RED 106. BEGINNING BALLROOM DANCE (1) I. Basic skills and knowledges of social and ballroom styles.

RED 111. BEGINNING FOLK AND SQUARE DANCE (1) I. Basic skills and knowledges of folk and square dance styles.

RED 115. BEGINNING MODERN DANCE (1) I, II, III. Basic skills and knowledges of modern dance.

RED 178. CAMP LEADERSHIP (4) I, III. Designed for students interested in camp counseling; emphasis on camp activities, principles and practices of program planning.

RED 180. RHYTHMIC IMPLEMENTATIONS (2) I. Elementary musical concepts and application in movement.

RED 186. MAJOR CONCEPTS IN RECREATION (3) II, III. Recreation through critical study of current professional concepts. Open to recreation majors only.

RED 205. RECREATION IN COMMUNITY (4) I, II. Methods and materials used on playgrounds and in recreation centers; objectives and theories of leadership and program planning in games, tournaments, mixers, skits, group singing, and special events.

RED 206. INTERMEDIATE BALLROOM DANCE (2) II. Continuation of basic skills and knowledge of ballroom styles of dance. Prerequisite: RED 106 or consent of instructor.

RED 211. INTERMEDIATE FOLK AND SQUARE DANCE (2) II. Continuation of basic skills and knowledge of folk and square dance styles. Prerequisite: RED 111 or consent of instructor.

RED 215. INTERMEDIATE MODERN DANCE (2) I, II, III. Continuation of basic skills and knowledge of modern dance. Prerequisite: RED 115 or consent of instructor.

RED 224. DANCE PERFORMANCE WORKSHOP (2) III. Experience in choreography and participation as member of concert group. May be repeated to eight hours. Prerequisite: consent of instructor.

RED 226. PRINCIPLES OF DANCE IN ART AND EDUCATION (2) I. Fundamental forms, concepts, and principles of dance as educational discipline and performing art.

RED 227. DANCE IMPROVISATION (2) II alternate years. Activity class; discovery, creativity, relationships, and expression of human movement.

RED 273. INTRODUCTION TO OUTDOOR RECREATION (4) I. Recreational use of outdoor resources, programming governmental agencies, socio-economic factors, and environmental consciousness. Prerequisite: RED 186.

RED 294. OUTDOOR PURSUITS (3) III. Development of concepts and skills for outdoor living; criteria for equipment and food selection, trip planning and leadership in backpacking, bicycle towing and canoe tripping. Weekend trip required. Prerequisite: intermediate camping skills.

RED 303. ADVANCED BALLROOM DANCE (2) II. Continuation of intermediate skills and knowledge of ballroom styles of dance. Prerequisite: RED 206 or consent of instructor.

RED 315. ADVANCED MODERN DANCE (2) I, II, III. Continuation of intermediate skills and knowledge of modern dance. Prerequisite: RED 215 or consent of instructor.

RED 323. CAMP ADMINISTRATION (3) II. Budgets, equipment; campsites, program, and personnel. Designed for student preparing for camp administrative position. Prerequisite: RED 178 or camp counseling experience.

RED 325. MODERN DANCE TECHNIQUES AND THEORY (2) I, II, III. Studio instruction of modern dance technique fundamentals; development of physical and mental requirements of dance performance.

RED 326. DANCE COMPOSITION (2) III alternate years. Creative study in selection, structure, and development of movement themes for solo and small group composition.

RED 327. CHOREOGRAPHY WORKSHOP (1) I, II. Dance movement and composition in relation to line and space in preparation for concert performance.

RED 373. CONCEPTS OF OUTDOOR EDUCATION (4) II and on demand. Various approaches to outdoor education; resident outdoor experiences, day camps, life-skill emphasis, Outward Bound adaptations, mobile labs, therapeutic-oriented outdoor experiences, and outdoor education center.

RED 374. TECHNIQUES IN OUTDOOR EDUCATION (4) III and on demand. Methods, materials and educational techniques for outdoor education; ecological/environmental studies, outdoor arts and crafts, nature awareness and interpretive activities, and weekend outdoor experience.

RED 384. ORGANIZATION AND ADMINISTRATION OF RECREATION (5) I, II. Theory and practice in planning managing programs and budget preparation. Open to recreation majors only. Prerequisites: RED 186 and RED 205.

RED 385. RECREATION PROGRAM DEVELOPMENT (4) III. Fundamental principles of program planning in recreation; current practices in program administration; types of programs considered in relation to individual needs, interests, capacities, age, sex; scheduling, public relations, supervision, evaluation. Prerequisite: RED 384.

RED 387. PRACTICUM (1-8) I, II, III. Practicums available in each program below area are under supervision of Division of Recreation and Dance (RED). Petitioning and approval required of each student before registration. Credit hours for each experience approved separately for program area offering practicum. Specific minimum number of credits may be required in various program areas; check requirements with senior checklist and/or adviser or area heads. Practicums available in following program areas:

RED 387b. DANCE

RED 387j. RECREATION

RED 387k. RECREATION LEADERSHIP

RED 395. WORKSHOP ON CURRENT TOPICS (1-5).

On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated on approval of adviser.

RED 424. SURVEY OF DANCE HISTORY (3) II alternate years. Dance from primitive times through Renaissance; development of ballet; emergence of modern dance in 20th century.

RED 426. DANCE PRODUCTION (3) III alternate years. Problems and techniques in dance production; lighting, sound, costuming, direction, publicity and general management.

RED 470. INDEPENDENT STUDY IN RECREATION AND DANCE (2-5) I, II, III, IV. Project must be approved by project supervisor and program area chair prior to registration. May be repeated.

RED 482. EVALUATION OF RECREATION SERVICES (4) I. Methods, techniques and application of evaluation

process in a variety of functions normally found in recreation and park services including clientele, programs, personnel, facilities, organization. Prerequisites: senior status, RED 384.

RED 483. RECREATION AREAS AND FACILITIES (5) II. Acquisition, development, construction, maintenance, operation of recreation areas, facilities, buildings. Prerequisite: RED 384.

RED 484. CONTEMPORARY ISSUES IN RECREATION (4) III. Seminar in current issues. Prerequisite: junior or senior standing.

RED 487. PRACTICUM (1-8) I, II, III. Practicums available in each program below are under supervision of Division of Recreation and Dance (RED). Petitioning and approval required of each student before registration. Credit hours for each experience approved separately for program area offering practicum. Specific minimum number of credits may be required in various program areas; check requirements with senior checklist and/or adviser or area heads. Practicums available in following program areas:

RED 487b. DANCE

RED 487i. RECREATION ADMINISTRATION

RED 487n. RECREATION SUPERVISION

RED 488. FIELD WORK IN RECREATION (15) I, II, III, IV. For recreation majors only. Prerequisites: two practicums in recreation, 90 credit hours in area of emphasis, RED 384 and consent of division.

Sports Studies and Management (SSM)

SSM 304-305, 308-309, 311-324. ADVANCED ACTIVITY COURSES. Elective program of advanced coaching strategy, skill and knowledge development within each sport, aquatics, and dance. Prerequisite: successful completion of comparable intermediate level competency at BGSU.

SSM 304. WOMEN'S BASKETBALL (2) II.

SSM 305. WOMEN'S GYMNASTICS (2) II.

SSM 308. WOMEN'S LACROSSE (2) III.

SSM 309. FENCING (2) II.

SSM 311. FIELD HOCKEY (2) I.

SSM 312. GOLF (2) III.

SSM 316. SOFTBALL (2) III.

SSM 317. SWIMMING (2) II.

SSM 319. TENNIS (2) I.

SSM 321. VOLLEYBALL (2) I.

SSM 324. TRACK AND FIELD (2) III.

SSM 306. OFFICIATING, INDIVIDUAL SPORTS (2) I, III.

Philosophy, principles, rules, and techniques of officiating gymnastics, aquatics, or track and field. Leads to OHSA registration when applicable. Four hours a week. May be repeated twice.

SSM 307. OFFICIATING, TEAM SPORTS (2) I, II.

Philosophy, principles, rules, and techniques of officiating basketball, field hockey, or volleyball. Leads to OHSA registration when applicable. Four hours a week. Prerequisite: successful completion of beginning skills class within particular sport. May be repeated twice.

SSM 310. CARE AND PREVENTION OF SPORTS INJURIES (3) I, II, III. Lecture and laboratory experience in bandaging, taping, and transportation of injured athlete. Limited to students in College of Education. Recommended: BIOL 332.

SSM 328. PRINCIPLES, ETHICS, AND PROBLEMS OF ATHLETIC COACHING (5) I, II, III. Seminar approach to non-technical, "off field" aspects of athletic coaching; educational implications; coaching ethics; public relations; equipment; financing; liability; coach-athlete rapport. Prerequisite: sophomore standing; major or minor, coaching minor, or consent of instructor.

SSM 329. COACHING-FOOTBALL (3) I. Strategy, leadership, team organization, methods.

SSM 330. COACHING-TRACK (3) III. Strategy, leadership, team organization, methods.

SSM 331. COACHING-BASKETBALL (3) I, II. Strategy, leadership, team organization, methods.

SSM 332. COACHING-BASEBALL (3) III. Strategy, leadership, team organization, methods.

SSM 364-369. SPORTS OFFICIATING. Lecture and laboratory experience in rules and mechanics of officiating. Prepares for OHSA Officials' Examination.

SSM 364. OFFICIATING FOOTBALL (2) I.

SSM 365. OFFICIATING WRESTLING (1) II.

SSM 366. OFFICIATING BASKETBALL (2) II.

SSM 367. OFFICIATING BASEBALL (2) III.

SSM 368. OFFICIATING TRACK AND FIELD (1) III.

SSM 369. OFFICIATING SOCCER (1) I.

SSM 391. PRACTICUM IN ATHLETIC STUDIES (3) I, II, III. Field experience with interscholastic athletic teams at junior or senior high school level. Assisting with interscholastic team, and weekly on-campus seminars. Prerequisite: SSM 328, concentration in athletic coaching or athletic training, and permission of instructor.

SSM 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated on approval of adviser.

SSM 410. ADVANCED TECHNIQUES OF ATHLETIC TRAINING (4) I, III. Mechanism of sports injuries, recognition of severity, examination, treatment, and rehabilitation of specific areas of injury. Prerequisite: SSM 310 and BIOL 331; or consent of instructor.

SSM 425. WOMEN AND SPORT (4) III. Historical, cultural, psychological, and physiological consideration of women's participation in sport.

SSM 429. SCIENTIFIC FOUNDATIONS OF ATHLETIC COACHING (4) III. Selected concepts and principles from anatomy, kinesiology, physiology, and physics (mechanics) relevant to effective athletic coaching. Open to PEP majors by permission of instructor.

SSM 431. PROBLEMS OF INTRAMURAL AND EXTRAMURAL SPORTS (3) III. Planning, promoting, and administering intramural and recreational sports.

SSM 490. PROFESSIONAL RESOURCES IN SPORTS AND ACTIVITIES.

History (HIST)

- ★ **HIST 101. STUDY OF HISTORY** (4). Stresses concepts and skills rather than chronology; why history is important as way of thinking and how historian's explanation of human behavior through time links perspectives and findings of other fields of study.
- ★ **HIST 151. EMERGENCE OF HUMAN SOCIETY: CONTINUITY AND CHANGE** (4) I, II, III. Comparative study of cultural patterns and problems from Paleolithic cave to medieval castle which laid foundations of modern civilization.
- ★ **HIST 152. RISE OF WEST: RENAISSANCE TO REVOLUTION** (4) I, II, III. Transformation of European society: institutional and ideological change; rise of West to world power.
- ★ **HIST 153. EUROPE IN MODERN WORLD: DOMINANCE AND DECLINE** (4) I, II, III. Impact of political and industrial revolution on European society and culture; 19th century expansion and 20th century retreat from world power; rise of totalitarianism and world conflict.
- ★ **HIST 205. UNITED STATES TO 1877** (4) I, II, III. Political, constitutional, economic, cultural development of U.S. from early settlement to close of Reconstruction.
- ★ **HIST 206. UNITED STATES SINCE 1877** (4) I, II, III. HIST 205 continued. Growth of American industry, agricultural problems, progressive movement, World War I, postwar economic problems, New Deal, World War II, and aftermath.
- HIST 207. AFRO-AMERICAN HISTORY** (4) I. History of black Americans from African origins, slavery, and emancipation through rural Southern and 20th century urban experiences.
- ★ **HIST 280. CHINA, INDIA, AND JAPAN** (4). Cultures of peoples of nearly half the world population and contrasting historical experiences to American way of life. Cultural, social, and political change/continuity of major Asian countries, including Korea and Vietnam, since Western encroachment. Aimed at understanding Asia through personal involvement in its cultures.
- ★ **HIST 291. STUDIES IN HISTORY** (2-4). Introductory approaches to history. Content and theme vary with instructor. For students electing history for general education or group requirements.
- HIST 301. AMERICAN MILITARY HISTORY** (4) I. Development of American military institutions, policies, strategy, tactics from American Revolution to present. Not open to students with credit in MILS 401.
- ★ **HIST 302. CRIME, POVERTY, AND VIOLENCE IN 19TH CENTURY** (4) III. Development of criminal justice systems in England, France, and U.S. Impact of differing national cultures on emergence and development of professional police in these countries.

HIST 303. WORLD WAR II (4) I. How and why Atlantic-European, Mediterranean, and Pacific-Asian theaters of war produced global dynamics in three acts: 1. 1939-1942—German and Japanese expansion, innovative tactics; 2. 1942-43—mobilization and technology, propaganda and intelligence, air and sea war; 3. 1944-45—U.S. and U.S.S.R. counter-expansion, grand strategy, and politics of war.

HIST 305. BIBLE AS HISTORY, II: THE OLD TESTAMENT (4). Major problems relating to text, content, and context of Old Testament as historically interpreted in modern Biblical scholarship; keyed to demonstrating authenticity of evidence, integrity of explanation, and continuity of experience found in Bible.

- ★ **HIST 306. HISTORY OF OHIO** (4) I, II, III. Precolonial background, early exploration, settlement; Northwest Territory; Ohio in French and Indian War, American Revolution, War of 1812; Ohio's place in national development.

HIST 307. TOPICS IN AFRO-AMERICAN HISTORY (4) II. Intense study of selected topics in HIST 207. Focus on primary source materials.

HIST 309. LATIN AMERICA: PERIOD BEFORE INDEPENDENCE (4) I. Latin-American history treating these phases: pre-Columbian; discovery and conquest; colonial; wars of independence. Role of indigenous and European cultures in development of Latin America.

HIST 310. LATIN AMERICA: 20 REPUBLICS (4) II. National histories of Latin-American republics; common and unique features of these states, relations between U.S. and Latin America, development of Pan-American movement, and role of Latin America in world affairs.

HIST 313. HISTORY OF BRAZIL (4) III. Political, economic, and social development of Brazil from arrival of Cabral to 20th century military dictatorship; evolution of Captaincies, conquest of Sertao, slavery, sugar, and coffee in development of modern Brazil.

HIST 315. SLAVERY IN AMERICAS (4). African slave trade and various slave societies which that traffic gave birth to in Western hemisphere. Emphasis on Cuba, Jamaica, Brazil, and American South.

HIST 316. FAMINE AND REVOLUTION IN PEASANT NATIONS: HISTORICAL ROOTS (4) III. Indonesia as model to understand problems facing peasant nations in Asia, Africa, and Latin America. European imperial penetration and traditional peasant values; why peasant societies are vulnerable to periodic famine. Revolutionary changes that have transformed England, Russia, Japan, and China to understand what changes must take place if industrialization is to succeed in peasant nations.

HIST 320. SOCIAL HISTORY OF AMERICAN MEDICINE (4) II. Leading theorists; major social and public policy determinants of health care in America from 1780 to present.

HIST 323. HISTORY OF AMERICAN JOURNALISM (4). American journalism from colonial newspapers to multimedia age, emphasizing 20th century. Journalism as agent of political change from American Revolution to Watergate. Tradition and meaning of "freedom of press" from Zenger trial to Pentagon Papers; "truth as first casualty" question in coverage of America's wars from Civil War to Vietnam.

HIST 325. BUSINESS HISTORY OF THE UNITED STATES (4). American business in its historical setting from 1607 to present. Interaction between economic and political forces in explaining unique role private enterprise has played in American life.

HIST 326. WOMEN IN AMERICAN HISTORY (4) II. Major issues and movements in American history that have involved women from colonial period to modern times.

HIST 338. AMERICAN ENVIRONMENTAL HISTORY (4). Three centuries of changing American attitudes and actions toward natural environment; rise of conservation movement and development of ecological perspective.

HIST 340. WORLD OF BIBLE (4) I. Major civilizations of ancient Near East (Mesopotamia, Egypt, Syria, and Israel); defining, comparing, and contrasting Oriental and Biblical social traditions as embodied in respective institutions, art, literature, religion.

HIST 357. ENGLISH ORIGINS OF AMERICAN LAW (4) II. Medieval and early modern English history; origin and growth of legal and constitutional doctrines, institutions, and procedures important to understanding American legal system.

HIST 360. MAJOR PERSONALITIES OF 20TH CENTURY (4). Biographical study of individuals whose lives made substantial changes in aspects of modern society, examined both as individuals and as representatives of major movements of 20th century.

HIST 363. FRENCH REVOLUTION AND NAPOLEON (4) II. Impact of French Revolution on society of Old Regime; formation of revolutionary creed; Great Revolution, Jacobin Republic, Thermidor; Napoleon and principles of 1789.

HIST 367. HITLER'S GERMANY: RISE AND FALL OF NAZISM (4) III. Major developments in Germany from defeat in 1918 through collapse in 1945 and recovery in Cold War era. Weimer Republic, Hitler, Third Reich, post-war reactions and conditions; keyed to causes and effects of Nazi totalitarianism and racism.

HIST 377. 20TH CENTURY EUROPE (4) I. Aspects of European historical development in 20th century; major forces, events, and experiences which have shaped Europe and its place in contemporary world.

HIST 381. UNITED STATES AND ASIA (4). U.S. relations with China, Japan, India, and southeast Asia in 20th century; interaction of domestic politics and foreign policy; Asian nationalism, militarism, communism; America's involvement in wars and peace-making.

HIST 382. CHINESE CULTURE AND INSTITUTIONS (4) I. Unique cultural and institutional developments of traditional China and relations with Korea. Intrinsic value of broadening perspectives through exposure to major non-Western cultural experience.

HIST 386. JAPANESE CULTURE: MULTI-MEDIA APPROACH (4) II. Higher culture in traditional Japan. Religion, visual arts, literature, theatre, and uniquely Japanese arts. Political and institutional history as it relates to cultural development.

HIST 390. ANALYSIS OF COMPUTERIZED POLITICAL AND HISTORICAL DATA (4) I. (See also POLS 390.) Analysis of survey and historical data collected by Inter-University Consortium for Political and Social Research. Familiarization with data-management capabilities of computer program package designed to analyze Consortium data. Not open to student with credit for POLS 390.

HIST 391. SPECIAL STUDIES IN HISTORY (2-4) I, II, III. Content and theme vary with instructor. Designed to meet needs and interest of nonmajors.

HIST 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format used. Requirements usually completed within time format. May be repeated if topics differ on approval of adviser.

HIST 401. CAESAR AND CHRIST: SOCIAL WORLDS OF LATE ANTIQUITY AND EARLY CHRISTIANITY (4). Basic issues and problems involved in tensions and conflicts between pagan and Christian that were eventually accommodated in 4th century A.D.; social disaffection, political resistance, and cultural alienation.

HIST 402. U.S. URBAN HISTORY, 1630-1830 (4) I. Economic and social structure of preindustrial American city; economic base, pattern of social stratification, and political structure of New England town, seaport cities, and western interior cities.

HIST 403. U.S. URBAN HISTORY, 1830-1970 (4) II. Impact of industrialization on American cities; economic and demographic change, patterns of geographic and social mobility, changing political structures of late 19th and 20th century cities.

HIST 405. U.S. LABOR SINCE 1865 (4) II. Origins, development, and problems of trade unions and relationship to industrial, political, social, and ideological developments. Prerequisites: HIST 206, and ECON 200 or ECON 202, or consent of instructor.

HIST 411. MODERN MEXICO (4) III. Analysis of first Latin-American state to experience political, social, and economic revolution in 20th century; causes of the revolution, leaders and institutions produced, emergence of Mexico as relatively stable and progressive state.

HIST 412. SOUTHERN SOUTH AMERICA (4) III. Political, economic, and social examination of Chile, Argentina, Uruguay, Paraguay, and Bolivia in modern era; relations among these states.

HIST 413. CARIBBEAN AND SPANISH MAIN (4) III. Political, economic, and social development of Greater Antilles and Spanish Main from 17th to 20th centuries; war and trade, slavery, revolution, caudillism, and communism in Caribbean.

HIST 414. CANADA (4) I. European colonial rivalry, problems of European-settled colonies, emergence of colonial self-government, confederation movement, search for national identity, nature of commonwealth nation, role as mediator in Anglo-American relations, importance as independent neighbor.

HIST 415. SPAIN AND PORTUGAL (4) II. Political, economic, and social development of Iberian peninsula from invasion of Moors to 20th century dictators; reconquest, reign of Hapsburgs, Spanish Civil Wars, regimes of Franco and Salazar.

★ **HIST 419. WESTWARD MOVEMENT IN AMERICA (4) I.** Development of Trans-Mississippi West during 19th century; American Indian, territorial expansion, sectional conflict, economic development.

HIST 420. TOPICS IN AMERICAN WEST (4) II. Selected topics in history of Trans-Mississippi West; frontier literature, territorial system, California, conservation, Indian affairs, modern west.

★ **HIST 421. AMERICAN COLONIAL HISTORY, 1492-1763 (4) I.** European backgrounds of American history, establishment of European settlements and institutions, emergence of colonial culture, conflict between France and England for New World.

★ **HIST 422. AMERICAN REVOLUTIONARY ERA, 1763-1815 (4) II.** Causes, course, and consequences of War for Independence; organization of government and emergence of national party system; economic, social, diplomatic problems of young republic.

HIST 425. CONFLICT AND DIVISION IN U.S. (4) I. Economic, social, political institutions of 1815-1860; Old South and forces that produced Civil War. Prerequisite: HIST 205 or consent of instructor.

HIST 426. CIVIL WAR AND RECONSTRUCTION, 1861-1877 (4) II. Political, economic, and cultural conditions during War; resulting problems to peoples and governments of both sections continuing through postwar period. Prerequisite: HIST 205 and HIST 206 or consent of instructor.

HIST 427. AMERICAN SOUTH, 1865-PRESENT (4) III. Reconstruction South, new industrial growth, evolution of Southern agriculture, racial and labor problems, South in American political life, southern education and culture, South today.

HIST 428. EMERGENCE OF MODERN AMERICA 1877-1900 (4) III. Transformation of U.S. from isolated, agrarian nation into modern, industrialized world power; economic, social, cultural, and political problems which attended this change. Prerequisite: HIST 206 or consent of instructor.

HIST 429. PROGRESSIVE ERA AND YEARS OF REPUBLICAN ASCENDANCY, 1900-1933 (4) I. American political and economic progressivism; great crusade of World War I; "normalcy" and business society of Twenties; great crash and early depression years; intellectual, cultural, social change of Roaring Twenties.

★ **HIST 430. RECENT U.S. HISTORY** (4) II. Voter alignment and main political issues since New Deal. Affluence, conformity, liberation, counter-culture, New Left, Middle America.

HIST 432. AMERICAN CONSTITUTIONAL HISTORY (4) II. Colonial and revolutionary origins of American federal system as embodied in Constitution of 1787. Subsequent development of democratic government and impact of territorial expansion and industrial development on political cohesion of nation (in relation to continued use of slave labor) up to outbreak of Civil War.

HIST 433. AMERICAN CONSTITUTIONAL HISTORY (4) III. Civil War interpreted as second American revolution culminating in reconstruction of nation to national republic (from federal states-rights republic) by passage of 13th, 14th, and 15th amendments. Subsequent regulation of business corporations in urban industrial economy; growth of social welfare state; expansion of presidential power; extension of civil rights to all citizens.

HIST 434. EARLY AMERICAN SOCIAL AND INTELLECTUAL HISTORY (4) I. Major trends in American thought, religion, society, culture, manners from colonial times to 1812.

HIST 435. AMERICAN SOCIAL HISTORY 1800-1900 (4) Institutional and psychological sources of major ideas and attitudes from 1790 to 1900. Intensive analysis of changing patterns of ethnic, religious, and sexual degradation.

HIST 436. AMERICAN SOCIAL HISTORY, 1900-PRESENT (4) III. Disintegration of viable local communities, rise of centralized bureaucracies, and effects of these developments on individual and group psychologies and ideologies. Intensive study of leading intellectuals and popular religious, sexual, and ethnic attitudes.

HIST 437. U.S. AS WORLD POWER IN 20TH CENTURY (4) I. American involvement in world affairs; imperialism in Asia and Latin America; World War I—response to German militarism and Russian communism; postwar "isolationism"; World War II—background to Pearl Harbor, wartime alliances, peace settlements; preview of rivalries and frustrations of Cold War in Europe and Asia.

★ **HIST 438. U.S. FOREIGN POLICY: WORLD WAR II-PRESENT** (4) II. Origins of Cold War and containment policy toward Soviet Union. U.S. response to communism in China. Korean War: complex causes and controversial strategies. U.S. involvement and failure in Vietnam. Cuban missile crisis and movement toward "detente".

HIST 441. CLASSICAL HELLENISM (1000-400 B.C.) (4) II. Ancient Greek society and culture from "dark ages" through "golden age" of 5th century. Resourcefulness of Hellenism in democratic politics, imperialistic policies, and classic products of Periclean Athens. Weakness of Greek civilization in coping with crises engendered by Atheno-Peloponnesian war.

HIST 442. ROMAN REVOLUTION: FROM GRACCHI THROUGH CAESAR AUGUSTUS (4) III. Crisis of social turbulence, political violence, and cultural ambivalence that marked Rome's transition from city-state to world state; inquiry into how and why Roman archaism, republicanism, and imperialism contributed to collapse of Late Republic and creation of Early Empire.

HIST 443. MEDIEVAL CIVILIZATION, 476-1000 (4) II. Political, social, economic, cultural developments from fall of Rome to emergence of feudal Europe; some developments in Islamic and Byzantine East.

HIST 444. MEDIEVAL CIVILIZATION 1000-1400 (4) III. Political, social, economic, cultural trends during high and late Middle Ages; relations between West and Byzantine and Islamic East.

HIST 445. RENAISSANCE EUROPE: 1350-1550 (4) II. Continuity and change in political, economic, social, and cultural forces of late medieval world that mark beginnings of modern Europe. Evolution of Renaissance world-view as evident in arts, literature, and thought.

HIST 446. REFORMATION EUROPE: 1500-1700 (4) III. Europe's struggle to create framework of authority and stability out of division and disorder. Religion, internal politics, and international relations, as key elements; compares experiences of England, France, Holy Roman Empire, Netherlands, and Spain.

HIST 447. EARLY MODERN EUROPEAN SOCIETY AND THOUGHT: 1500-1815 (4) I. Major social and intellectual trends in early modern Europe: Protestantism, capitalism, and rise of middle classes, early social movements among rural and urban laborers, the enlightenment, social conflict during French Revolution.

★ **HIST 448. 19TH CENTURY EUROPEAN SOCIETY AND THOUGHT: 1815-1914** (4) II. Major social and intellectual trends in 19th century: romanticism, liberalism, utopian socialism, Marxism, rise of working-class organizations, Fin de Siecle revolt.

★ **HIST 449. RECENT EUROPEAN SOCIETY AND THOUGHT: 1914-PRESENT** (4) III. Recent developments in European society: development of European communism; Freudianism; fascism as ideological and social movement; existentialism and post-war disillusionment; recent trends in Marxist thought.

HIST 453. EUROPEAN FOREIGN RELATIONS, 1815-1914 (4) I. European foreign relations and diplomatic practices; policies and actions of great powers and their statesmen; 19th century balance of power, impact of new and changing forces on European state system, emergence of Germany, and coming of World War.

HIST 454. EUROPEAN FOREIGN RELATIONS, 1914-1960 (4) II. Foreign policies and diplomatic practices of great powers and their statesmen; course and impact of World War; postwar quest for peace and stability; origins, course, and effects of World War II; Europe in Cold War.

HIST 457. ENGLAND, 55 B.C.-1485 (4) I. Roman Britain, Anglo-Saxon England and institutions, Norman and Angevin period—feudalism, legal and parliamentary developments, and culture; War of Roses.

HIST 458. ENGLAND, 1485-1783 (4) II. Tudor-Stuart England—Reformation, constitutional development, civil war, Revolution of 1688, and colonial development. Hanoverian Britain—political and constitutional structure, Enlightenment, colonial rivalry, and imperial development.

HIST 459. GREAT BRITAIN, 1783-PRESENT (4) III. Industrial and agricultural changes, struggle with revolutionary France, Victorian England, political and economic reform, two world wars and consequences.

HIST 462. BRITISH EMPIRE-COMMONWEALTH (4) III. Rationale of imperialism, expansion of Britain overseas, development of colonial holdings, evolution of concept and reality of Commonwealth of Nations.

HIST 464. HISTORY OF FRANCE SINCE 1815 (4) III. Social and economic development of France, 1815-Third Republic; Jacobin radicalism, emergence of French labor movement; France between two world wars; Vichy and the Resistance; problems of Fourth and Fifth Republics.

HIST 466. GERMANY AND CENTRAL EUROPE, 1648-1918 (4) II. Growth of Prussia, impact of French Revolution, Austro-Prussian rivalry in central Europe, Bismarckian Empire and collapse in 1918. Major expressions of Germanic intellect and culture.

HIST 469. MEDIEVAL AND IMPERIAL RUSSIA, 900-1825 (4) I. Racial, political, and religious origins; development of autocracy; national and imperial problems to death of Alexander I.

- ★ **HIST 470. MODERN RUSSIA, 1825-1945** (4) II. Revolutionary origins; social, economic, political position in 19th and 20th centuries.

HIST 471. EDUCATION AND REVOLUTION IN RUSSIA (4). Russian-Soviet struggle to create perfect society dominant in world through interplay of education and revolutionary ideology as reciprocal political tools.

HIST 480. HISTORY OF AFRICA TO 18th CENTURY (4) I. African continent: pre-history, formation of African groupings, contacts with ancient world, growth of African states and empires; background and impact of Islam; arrival of Portuguese and slave trade.

HIST 481. HISTORY OF AFRICA, 18th CENTURY-PRESENT (4) II. Anti-slavery movement, rise of forest and savannah kingdoms, Islamic revival, impact of Christianity, European exploration, imperialism, colonialism, nationalism, and rise of modern African states.

HIST 483. REVOLUTION AND TRADITION IN MODERN CHINA (4) II. China from decline of Ch'ing dynasty to rise of People's Republic. Problems of culturalism, nationalism and Maoist strategy for successful peasant revolution, China's cultural legacy, struggles for unity and independence, China's relations with U.S.

HIST 486. JAPAN: NEW SUPERSTATE (4) III. Japan's successful modernization since "opening" to West in 1853; political development, industrialization, expansion; Japan's rise from defeat in World War II to world economic power.

HIST 490. SENIOR SEMINAR IN HISTORY (4) I, II, III. For selected senior history majors. Examination of historical literature, problems of historical research, discussion of various historical methods. Open to history majors by invitation only.

- ★ **HIST 491. TOPICS IN HISTORY** (3-5). On demand. Study of selected topics or subject areas.

HIST 495. READINGS IN HISTORY (1-5) I, II, III. Individual readings in consultation with instructor in fields of special historical interest. Prerequisite: consent of department chair and instructor.

Home Economics (HOEC)

- ★ **HOEC 100. COSTUME DESIGN AND CLOTHING SELECTION** (3) I, II, III. Aesthetic principles of design and consumer buying practices of clothing and textiles.
- ★ **HOEC 101. CLOTHING** (3) I, II, III. Analysis of clothing construction methods through evaluation of basic techniques and construction of two garments. Two one-hour periods and one two-hour period. May be waived through exemption test (see adviser) before first day of fall quarter.
- ★ **HOEC 103. TEXTILES** (4) I, II, III. Fiber, yarn, and fabric structures; finishes; color and design. Selection and care of fabrics for personal and household uses. Three one-hour periods, and one two-hour period.
- ★ **HOEC 105. PERSONAL AND FAMILY RELATIONSHIPS** (4) I, II, III. Growth and development of college student as individual and in social relationships in family, college, community; activities and functions of present-day family.

HOEC 107. FAMILY LIFE OF AMERICAN NEGRO (4) I, II, III. Living patterns of American Negro family; historical development, present status, strengths, problems, and prognosis.

- ★ **HOEC 120. SURVEY OF CHILD AND FAMILY COMMUNITY SERVICES** (3) I, II, III. Institutions serving young children and families. Principles underlying effective services, including qualifications and preparation essential for professional work with people. Two hours of lecture and two hours of participation. Designed for child/family and early childhood education students. Must have access to car.

- ★ **HOEC 123. INTRODUCTION TO EARLY CHILDHOOD EDUCATION** (4) I, II, III. Conceptualization of early childhood education. Experiences provided in different programs from infancy through primary grades. Careers in early childhood education and competency-based criteria for teachers of young children.

HOEC 202. INTERMEDIATE CLOTHING AND BASIC FLAT PATTERN (4) I, II, III. Advanced construction including couture methods and basic flat pattern techniques as related to alterations, fit, and design. Two one-hour periods and two two-hour periods. Prerequisites: HOEC 100 and HOEC 101 and HOEC 103.

HOEC 204. INTRODUCTION TO FASHION MERCHANDISING (3) I, II. Fashion concepts and terminology, organization of fashion industry, career opportunities. Three one-hour lectures. Prerequisites: HOEC 100 and HOEC 101 and HOEC 103.

- ★ **HOEC 205. HOME MANAGEMENT** (4) I, II, III. Effect of values and philosophy on decisions regarding use of family resources: time, energy, knowledge, ability, skills, and attitudes as used to achieve family goals. Work simplification, history of discipline, and evaluation in home management.

HOEC 206. HOUSEHOLD EQUIPMENT (4) I, II, III. Selection, operation, care, and arrangement of household equipment for safe operation and effective management.

- ★ **HOEC 207. ESSENTIALS OF NUTRITION** (4) I, II, III. Nontechnical course. Application of fundamental principles of nutrition in selection of adequate diet for optimal health. Not open to home economics education, foods and nutrition, or dietetics majors.

HOEC 210. FUNDAMENTALS OF FOOD SCIENCE (5) I, II, III. Chemical and physical properties of foods and changes that take place in food preparation. Two one-hour lectures and three two-hour laboratories. Uniforms required. Prerequisite: CHEM 112 or CHEM 122.

HOEC 212. MEAL MANAGEMENT (4) I, II, III. Management of resources for various types of meal service including food selection and buying. Two one-hour periods and two two-hour periods. Prerequisite: HOEC 210.

HOEC 219. SEWING TECHNIQUES FOR INTERIORS (4) II. Fundamental sewing techniques related to construction of products for residential and commercial interiors.

HOEC 223. CHILD STUDY (3) I, III. Development of observational competencies; emphasis on case study. Methods of studying behavior patterns of young children as individuals and in group situations. Two one-hour class periods plus two hours of observation each week.

HOEC 250. FOUNDATIONS OF HOME ECONOMICS EDUCATION (4) I, III. Introduction to home economics education, the profession, role of teacher, understanding students; development of teaching strategies, including peer teaching, through field and clinical experiences. Required for all home economics education majors. One two-hour seminar and one four-hour field experience in school setting. No S/U grade for home economics education majors. C/F hrs: 50.

★ **HOEC 289. SUPERVISED FIELD EXPERIENCE** (1-2) II, III, IV. (May be repeated, but only two hours may be applied toward graduation.) Supervised paid work experience of diversified nature in industry or community service occupation at entry level related to student's major. Students receive credits for six (full day) work weeks or 240 hours of on-job experience in position with prior department approval. Only field course acceptable for job training certification. Graded S/U.

HOEC 301. PRESENTATION TECHNIQUES IN HOME ECONOMICS (3) I, II, III. Presentation principles and application of techniques for professional, business, and educational settings related to home economics. Prerequisite: SPCH 102. Two two-hour periods and one non-scheduled period.

HOEC 302. FOUNDATIONS FOR MARRIAGE AND FAMILY RELATIONS (4) I, II, III. Assist in development of basic philosophy about marriage and family development in democratic society. Emotional, psychological, and physical relationships to personal aspirations, social requirements, and family interrelationships. Prerequisite: HOEC 105 or SOC 101 or consent of instructor and junior or senior standing.

HOEC 303. HOME FURNISHING (4) I, II, III. Principles of design and application to treatment of interiors; selection of furniture, furnishings and accessories from artistic, economic, and maintenance point of view. Prerequisite: ART 101.

HOEC 307. NUTRITION (5) I, III. Principles of nutrition; applications to planning of dietaries for individuals under different conditions. Four one-hour periods and one two-hour period. Prerequisites: HOEC 212, and CHEM 213 or CHEM 306.

HOEC 310. MICROWAVE OVEN APPLICATIONS (3) II. Selection, care and effective use of microwave oven and accessories involving laboratory experiences. Two two-hour periods. Uniforms required. Prerequisites: HOEC 206 and HOEC 210, or consent of instructor.

HOEC 311. HOME MANAGEMENT RESIDENCE (4) I, II, III. Residence in home management. Fee: \$25 plus cost of food and other supplies; hours by appointment; application for residence required. Prerequisite: HOEC 205 and HOEC 307; junior standing. Graded S/U.

HOEC 312. DRESS DESIGN THROUGH DRAPING (3) II, III. Principles and techniques of draping used in creative clothing design. Techniques in handling various fabrics and application of couture methods of construction. Development of original design from sketch to finished garment. Three two-hour periods. Prerequisite: HOEC 202.

HOEC 313. ADVANCED TEXTILES (3) I, III. Application of textile learnings through examination of consumer textiles from standpoint of selected end uses; emphasis on new technology. Two one-hour periods, one two-hour period. Prerequisite: HOEC 103.

HOEC 319. INTERMEDIATE INTERIOR DESIGN (3) I, II. Basic design principles and their application in problem-formulating and problem-solving processes relevant to interior design. Three two-hour studios. Prerequisite: HOEC 303 and DESN 301.

★ **HOEC 320. INFANT DEVELOPMENT** (3) I. Growth and development from prenatal stages through toddler stage. Prerequisite: PSYC 201.

HOEC 321. CHILD DEVELOPMENT (3) I, II. Growth and development of pre-school child. Two one-hour periods and two hours of observation arranged. Prerequisite: HOEC 320.

HOEC 322. NURSERY SCHOOL PRACTICUM (3) I, II, III. Supervised nursery school participation. Two one-hour periods and two three-hour participation periods. Prerequisite: HOEC 321 or EDFI 342. Must apply in the CDC office one quarter prior to participation.

HOEC 323. CREATIVE EXPERIENCES FOR YOUNG CHILDREN (3) I, II, III. Techniques for introduction of creative experiences to young children in art, music, literature, drama, and movement.

HOEC 324. PERSONAL CLOTHING (3) III. Designed for non-majors. Basic construction and fitting techniques using commercial patterns. Not open to student with credit for HOEC 101. One one-hour period and two two-hour periods.

HOEC 325. MEAL SERVICE (4) I, II, III. Nontechnical course in food preparation and meal service. Two one-hour periods and two two-hour periods. Uniform required. Not open to home economics majors with credit for HOEC 210.

HOEC 326. FOODS OF OTHER CULTURES (3) II, III. Preparation and service of foods of different cultures. Geographical, economic, and cultural factors influencing food habits in selected foreign countries and regions of U.S.A. Two one-hour and one two-hour period. Uniform required. Prerequisite: HOEC 210 or HOEC 325.

HOEC 327. YOUNG CHILD (4) I, III. Aspects of development in early years from conception to school age; family as agent of socialization. Current child development theories. Not open to CDFR majors.

HOEC 328. PREADOLESCENT AND ADOLESCENT IN FAMILY AND COMMUNITY (4) I. Developmental and socialization patterns of preadolescents and adolescents. Analysis of ancillary youth-culture functions and problems. Development of basic competencies useful when interacting with youth. Prerequisites: PSYC 201; or HOEC 327; or HOEC 320 and HOEC 321; or EDFI 302; or EDFI 342; or permission of instructor.

HOEC 331. QUANTITY FOOD PRODUCTION AND MANAGEMENT (5) I. Principles for production of quality foods for institutional service. Menu planning, purchasing, and use control in food service industry. Three one-hour periods and four hours clinical experience. Prerequisite: HOEC 212.

HOEC 333. INSTITUTIONAL KITCHEN PLANNING, EQUIPMENT SELECTION, AND LAYOUT (3) II. Floor plan drawing and interpretation, development of production flow charts, and traffic patterns. Selection and placement of equipment in institutional kitchens and dining facilities. Selection of floor and wall finishes and sanitation facilities. Two two-hour periods. Prerequisite: DESN 301 or DESN 450.

HOEC 352. HOME ECONOMICS IN SECONDARY SCHOOLS (4) I, II. Principles, objectives, curriculum, instructional materials, and methods of vocational home economics. Prerequisites: HOEC 250 and EDFI 302 and junior standing. No S/U grade for home economics education majors. C/F hrs: 10.

HOEC 353. ORGANIZATION AND TEACHING IN VOCATIONAL JOB TRAINING PROGRAM (3) II, III. Techniques of teaching, occupational analysis, curriculum planning, and supervision of cooperative education in vocational and technical schools. Field experience included; must have access to car. Prerequisite: HOEC 352. No S/U grade for home economics education majors. One one-hour period and one four-hour period each week. C/F hrs: 20.

HOEC 354. CURRICULUM MANAGEMENT IN HOME ECONOMICS (2) I, II, III. Field experience and coordinated seminar to study curriculum management as it differs in urban, suburban, or rural schools. Required of all home economics education majors. Students are responsible for making arrangements with schools after consultation with faculty member from home economics education. Must be repeated at least once. No S/U grade for home economics education majors. Prerequisites: HOEC 352 and HOEC 353. C/F hrs.: 45+45.

HOEC 387. CHILD-FAMILY PRACTICUM (2-6) I, II, III, IV. Supervised field-base practicum with agencies offering life cycle services. Three weekly service hours required for each credit hour received. Attendance at weekly seminar also required. Prerequisites: HOEC 322 and 2.25 GPA in major.

HOEC 388. PROFESSIONAL WORK EXPERIENCE (2-5) I, II, III, IV. Supervised work experience of diversified nature in fashion merchandising, interior design, or textiles and clothing. One credit for 80 hours of on-job experience in position approved by program supervisor. Repeatable; however, only five credit hours count toward graduation.

HOEC 389. SUPERVISED FIELD EXPERIENCE (2 or 5) I, IV. Supervised work experience of diversified nature in industry or community service occupation at intermediate level related to student's intended major area of concentration. Students receive one credit for every two full weeks of on-job experience in campus-approved position. Prerequisite: consent of department. Graded S/U.

HOEC 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics related to skill development, content update, or materials development. Typically, an all-day or similar concentrated time format used. Requirements usually completed within time format. May be repeated on approval of adviser.

HOEC 401. HISTORY OF COSTUME (3) I, III. Development of western costume from Egyptian times to present; emphasis on relation to modern costume.

HOEC 402. FASHION MERCHANDISING (4) II, III. Selection and marketing of fashion merchandise and forces which influence fashion. Prerequisites: HOEC 202 and senior standing.

HOEC 403. SOCIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF CLOTHING (3) II, III. Cultural, sociological, and psychological factors influencing clothing habits of individuals and groups as related to their environment. Three one-hour periods. Prerequisites: SOC 101 and PSYC 201 and junior standing.

HOEC 404. TAILORING (4) I, II. Specialized techniques of professional tailoring through construction of suit or coat. Review of recent developments in textiles, and construction methods. Two one-hour periods and two two-hour periods. Prerequisite: HOEC 202.

HOEC 405. FAMILY AND CONSUMER ECONOMICS (5) I, II, III. Families' financial planning; consumer decisions in relation to patterns of living, income, and goals. Not open to students with credit for BUSE 240. Three one-hour and one two-hour period.

★ **HOEC 406. HOUSING THE FAMILY (4)** I, II, III. Procuring, maintaining, financing, and adapting housing for families with varying living patterns. House design and structure; site and neighborhood planning; government role in housing.

HOEC 407. PROBLEMS IN FAMILY RELATIONSHIPS (5) I, III. Structure, functions, and problems of present-day families in U.S.; learning methods of research in family life. Four scheduled and one unscheduled periods. Prerequisite: HOEC 105 or consent of instructor.

HOEC 408. INVESTIGATIONS IN FAMILY LIFE OF MINORITY GROUPS (4) I. Directed investigation of family life of racial and cultural minority groups in U.S. Prerequisite: senior standing.

HOEC 409. HOUSEHOLD ACTIVITY ANALYSIS (4) III. Work methods, work place and characteristics of worker in relation to solving work problems of employed, full-time, handicapped, and other special groups of home managers. Prerequisite: HOEC 205 or permission of instructor.

HOEC 410. STUDIES IN HOME ECONOMICS (5) II, III. Integrative study which examines areas of home economics; emphasis on recent developments. Prerequisite: HOEC 352.

HOEC 412. ADVANCED FLAT PATTERN DESIGN (4) I, II. Creative expression and application of principles of apparel design through media of flat pattern. Development of original design from sketch to finished garment. Two one-hour periods and two two-hour periods. Prerequisite: HOEC 202.

HOEC 413. ADVANCED HOME MANAGEMENT (4) II. Recognition, integration, and application of management principles and concepts in variety of family managerial situations. Prerequisite: HOEC 205 or permission of instructor.

HOEC 414. EXPERIMENTAL CLOTHING CONSTRUCTION (3) II, III. Experimental approach to study of factors influencing construction of apparel. One one-hour period and two two-hour periods. Prerequisite: HOEC 202.

HOEC 415. HOME MANAGEMENT FOR LOW INCOME FAMILIES (4) III. Managerial behavior of economically deprived families. Improving managerial skills in identifying, conserving, increasing, and using resources to realize family values and goals. Prerequisite: HOEC 205 or consent of instructor.

HOEC 416. ADVANCED HOUSEHOLD EQUIPMENT (4) I. Current trends, development, and research in household equipment; implications for consumer. Research projects related to students' professional interests required. Prerequisite: HOEC 206 or consent of instructor.

HOEC 417. HOME FURNISHINGS LABORATORY (4) I, III. Renovation and construction of various furnishings including refinishing, upholstering, slip covering, and drapery making for home and professional purposes. Two one-hour lectures and two two-hour laboratories. Prerequisites: HOEC 103 and HOEC 303, or consent of instructor.

HOEC 418. HISTORIC FURNISHINGS AND INTERIORS (4) I. European and American furniture from 14th through 20th centuries with corresponding interiors; including wall, window, and floor treatments and decorative arts. Prerequisite: HOEC 303.

HOEC 419. ADVANCED INTERIOR DESIGN (4) I. Application of design principles. Spaces and their specific planning to facilitate a particular function. Four two-hour studios. Prerequisites: HOEC 319 and HOEC 313, or permission of instructor.

HOEC 421. PARENT EDUCATION (3) I, II. History and philosophy of parent involvement and application of trends in parenting; "parent educator" role, influence of federal and state policies relative to young children's programs, and information on child abuse.

HOEC 422. CONCEPT DEVELOPMENT OF YOUNG CHILDREN (3) II, III. Review of contemporary emphasis on theories of intellectual development of young children; examination of research pertaining to specific concept areas and development of related experiences.

HOEC 423. ORGANIZATION OF CENTERS FOR YOUNG CHILDREN (3) I, III. Factors considered in organization and management of centers for young children.

HOEC 426. STUDIES IN INDIVIDUAL AND FAMILY POTENTIAL (4) I, II. Theories of human behavior and family interaction that provide for human sciences various definitions of what constitutes "fully functional" family and personal relations. Concepts of family interaction which focus on family communication patterns and suggest alternative patterns of family adjustment to internal and external stress. Prerequisite: HOEC 105 and HOEC 302 or permission of instructor.

HOEC 427. FACILITATION OF INDIVIDUAL AND FAMILY POTENTIAL (4) III. Builds on prerequisite course in family potential. Emphasis given to acquiring personal skills and personal awareness which facilitate effective interpersonal-familial and/or professional functioning. Methods of affirming self-esteem, encouraging authentic communications, and stimulating personal growth. Prerequisites: HOEC 105 or HOEC 302, and HOEC 426; or permission of instructor.

HOEC 428. SEXUALITY AND THE FAMILY (4). On demand. Interrelationships of areas of human sexuality and family development/interaction. Intended for students with solid background in sexual physiology and psycho-social aspects of human sexuality. Prerequisite: PSYC 307 or HED 338.

HOEC 429. THE FAMILY IN THE LATER YEARS (4). On demand. The family in the later years, emphasis on relationship between spouses, and with children and grandchildren; identification of factors associated with applied problem areas for such families.

HOEC 431. EXPERIMENTAL FOODS (4) II. Experimental methods in quality control and recipe standardization. Scientific reasoning applied to methods of food preparation. Subjective and objective evaluation of results. Two one-hour periods and two three-hour periods. Prerequisites: HOEC 212, and CHEM 306 or CHEM 213.

HOEC 432. ADVANCED NUTRITION (4) III. Interpretation and analysis of nutrition literature and related research. Principles of nutrition in diets for healthy humans. Three one-hour periods, one four-hour clinical. Transportation required. Prerequisites: HOEC 307 and CHEM 308 and CHEM 309, or consent of instructor.

HOEC 433. ADVANCED FOOD PRODUCTION MANAGEMENT (5) II. Management and administrative practices, selection, direction and training of personnel. Scheduling, wage scale, and salesmanship in industrial food service. Three one-hour periods and one half-day clinical. Prerequisites: HOEC 331, and MGMT 354 or MGMT 361.

HOEC 434. DIET THERAPY (5) I. Planning special and modified diets in abnormal conditions and disease. Four one-hour periods, one four-hour clinical. Transportation required. Prerequisite: HOEC 432.

HOEC 435. NUTRITION FOR INFANTS AND YOUNG CHILDREN (3) I, II. Nutrition of infants and children in health and disease, from prenatal period to adolescence. Two one-hour lectures and one two-hour laboratory. Prerequisites: HOEC 327 or HOEC 321, and HOEC 207 or HOEC 307. Winter quarter dietetics majors only.

HOEC 436. NUTRITION FOR THE AGING (3) I, III. Nutritional needs of aged; menu planning, purchasing, and preparation of food. Psychological, physiological, and socio-economic factors affecting dietary problems, practices, and preferences among elderly in individual and group living situations. Two hours of lecture, two hours of clinical experiences weekly. Prerequisite: HOEC 207 or HOEC 307. Spring quarter dietetics majors only.

HOEC 440. PROFESSIONAL ETHICS AND PRACTICES (4) II. Interior design management and operation; professional exposure to business practices; transaction, formats, procedures, and methods of problem solving.

HOEC 480. SEMINAR IN HOME ECONOMICS (1-3) I, II, III. Current selected topics not covered by existing course work examined in depth. Each curriculum program in department may offer this course on demand. Repeatable. Undergraduate credit only.

HOEC 489. INTERNSHIP (5-10) I, II, III, IV. Professional internship in clinical environment. Individualized full-time nonpaid assignments. Prerequisite: completion of all required course work. May be repeated. Graded S/U.

HOEC 490. PROBLEMS IN HOME ECONOMICS (1-5). On demand. For advanced students who want to conduct intensive study of selected problems in home economics. For undergraduate credit only. Prerequisite: consent of department chair.

Industrial Education (IE)

(See technology)

Industrial Engineering Technology (INET)

- † **INET 121. INDUSTRIAL ORGANIZATION** (2). Industrial organizations; problem solving, communications, structure of business, organization theory and functions.
- † **INET 122. BUSINESS DECISIONS** (4). Using basic algebra and calculus as tools for determining profit and loss statements, financial ratios, breakeven charts, balance sheets.
- † **INET 123. BASIC MANUFACTURING PROCESSES** (4). Discussions of properties, structures, and processing of metallic and non-metallic materials.
- † **INET 131. OPERATIONS ANALYSIS** (6). Emphasis on engineering graphics as pertains to the preparation of flow process charts, man/machine charts, and multiple activity charts.
- † **INET 132. MOTION STUDY** (3). Fundamentals of motion study and its relationship to job descriptions, analysis, and evaluation.
- † **INET 133. STATISTICS FOR WORK SAMPLING** (2). Sampling, probability; organizing and analyzing statistical data as related to work sampling.
- † **INET 134. TIME STUDY** (6). Responsibilities of a time study technician and equipment utilized; emphasis on performance, rating, conducting a time study, determining allowances, work sampling.
- † **INET 135. METHODS-TIME MEASUREMENT** (4). Determination of standard data for various jobs; emphasis on time and motion study.
- † **INET 136. METHODS STUDY** (3). Application of principles of a breakeven analysis, motion and time study and standard data to cost estimating. Completion of progress report pertaining to methods study project included.
- † **INET 140. PRODUCTION CONTROL: CONCEPTS & PROBLEMS I** (4). Production-Inventory systems; forecasting and planning for production; scheduling for high volume production, operation sequencing, balancing.
- † **INET 141. PRODUCTION CONTROL: CONCEPTS & PROBLEMS II** (4). Application of logic on production planning, job shop planning and control, network planning, scheduling and design of production planning systems.
- † **INET 142. INVENTORY CONTROL** (6). Organizing and analyzing statistical data, sampling, probability, economic lot and order quantities, inventory costs, inventory control functions.
- † **INET 143. QUALITY CONTROL** (4). Quality assurance; product reliability; acceptance, attribute, and variable sampling; control charts as related to quality control.
- † **INET 144. COST AND BUDGET CONTROL: PROJECT PLANNING** (6). Budget functions, concepts and responsibilities, budget variance analysis; Completion of a production planning project.
- † **INET 251. PLANT LOCATION** (2). Factors having impact on location of an industrial facility.

- † **INET 252. PLANT LAYOUT (5).** Methods utilized in plant layout to determine best relationship between output, space, and manufacturing cost.
- † **INET 253. UTILITIES AND MAINTENANCE I (5).** Fundamental electrical power and equipment; heating and air conditioning; lighting and National Electrical Code.
- † **INET 254. UTILITIES AND MAINTENANCE II (5).** Plant heating and cooling systems, air control, preventive maintenance, safety, OSHA rules and regulations.
- † **INET 255. MATERIAL HANDLING (5).** Determination of materials handling equipment for fixed and variable path and cost estimating for plant construction. Completion of a facilities planning project required.
- † **INET 261. UNION-MANAGEMENT RELATIONS (4).** Development of American unions, methods of communication within an enterprise, collective bargaining, grievance procedures.
- † **INET 262. WAGE AND SALARY ADMINISTRATION (3).** Straight-time and incentive plans, production efficiency, various supplemental plans.
- † **INET 263. MANAGEMENT TECHNIQUES (2).** Procedures used by management for job enrichment and rotation, management by objective, promoting ideas.
- † **INET 271. MANAGEMENT SCIENCE APPLICATIONS (4).** Familiarization with and use of programmable calculations to solve various business matters.
- † **INET 272. SOCIAL RESPONSIBILITIES OF BUSINESS (3).** Population growth and its impact upon the economy, automation and positive or negative implications of jobs, influence of inflation on upper, middle, and lower class citizens, employer responsibilities to management and labor.
- † **INET 273. ADVANCED PROCESSES AND MATERIALS (3).** Production of a videotape on specific topic, synthesis of knowledge to solve problem areas in a given industry, completion of a project in a specific business function.

Industrial Environment Technology (ENVR)

(See technology)

Information Systems (INFO)

(See management information systems)

Insurance (INS)

INS 300. PRINCIPLES OF INSURANCE (4) I, II, III, IV. Basic concepts of insurance and risk handling including analysis of insurance company functions; auto, homeowners, liability, life and health insurance from consumer point of view.

INS 465. PROPERTY AND LIABILITY INSURANCE COVERAGES (4) I. Protection provided by and legal aspects of fire, casualty, transportation, worker's compensation, multiple-lines, and corporate surety-ship insurance coverages. Prerequisite: INS 300.

INS 466. PROPERTY AND LIABILITY INSURANCE COMPANY OPERATIONS (4) II. Functional aspects of property-liability insurance companies; types of insurance carriers, marketing and underwriting problems, agency-carrier relationships, reinsurance, rate-making, financial analysis, and regulation. Prerequisite: INS 465 or permission of instructor.

INS 467. LIFE INSURANCE (4) II. Economic and social aspects of life insurance; structure of life insurance, annuity contracts; calculation of premiums, reserves, surrender values, dividends; contract provisions and legal principles. Prerequisite or corequisite: INS 300.

INS 469. ADVANCED LIFE INSURANCE (4) III. Advanced insurance topics; group life and health insurance, pension plans, social security; concepts involved in developing well integrated life and health insurance program. Prerequisite: INS 467 or permission of instructor.

INS 470. RISK MANAGEMENT (4) III. Management of corporate risk; evaluation, control, prevention, retention, treatment of risks in foreign countries; accounting and tax aspects considered. Case problems supplement textual assignments. Prerequisite: INS 465 or permission of instructor.

INS 491. STUDIES IN INSURANCE (1-4). On demand. In-depth study of selected areas. Offered to individuals on lecture basis or as seminar depending on student needs and nature of material. May be repeated to eight hours.

Interpersonal and Public Communication (IPCO)

(See speech communication)

Italian (ITAL)

***ITAL 101. ELEMENTARY ITALIAN (4) I, II.** Oral-aural study of language with attention to grammar. Four class periods and scheduled oral practice each week.

***ITAL 102. ELEMENTARY ITALIAN (4) II, III.** ITAL 101 continued. Four class periods and scheduled oral practice each week. Prerequisite: ITAL 101.

***ITAL 103. ELEMENTARY ITALIAN (4) I, II, III.** ITAL 102 continued. Four class periods and scheduled oral practice each week. Prerequisite: ITAL 102.

***ITAL 201. INTERMEDIATE ITALIAN (4) I.** Four class periods and scheduled oral practice each week. Prerequisite: ITAL 103 or two years of Italian in high school.

***ITAL 202. INTERMEDIATE ITALIAN (4) II.** ITAL 201 continued. Four class periods and scheduled oral practice each week. Prerequisite: ITAL 201 or three years of Italian in high school.

ITAL 261. THE ITALIAN CINEMA (3). Modern Italian culture and literature movements and their expression in cinema; demonstrates close relationship between literature and cinema. In English.

ITAL 351. ITALIAN COMPOSITION AND CONVERSATION I (3). Improvement of oral and written skills; emphasis on composition. Prerequisite: ITAL 202.

ITAL 352. ITALIAN COMPOSITION AND CONVERSATION II (3). Improvement of oral and written skills in the language; emphasis on conversation. Prerequisite: ITAL 202.

ITAL 361. INTRODUCTION TO ITALIAN LITERATURE I (3). Chronological evaluation of outstanding works in Italian literature from Middle Ages through 17th century; various movements and genres. Prerequisite: ITAL 202.

ITAL 362. INTRODUCTION TO ITALIAN LITERATURE II (3). ITAL 361 continued; masterpieces from 18th century to present; various movements and genres. Prerequisite: ITAL 202.

ITAL 371. ITALIAN CIVILIZATION I (3). Political, social, intellectual, artistic life from Middle Ages through 19th century. Background for literary studies and preparation for teaching of Italian. Prerequisite: ITAL 202.

ITAL 372. ITALIAN CIVILIZATION II (3). ITAL 371 continued; political, social, intellectual, artistic life of modern Italy. Prerequisite: ITAL 202.

*Credit toward graduation is not allowed for ITAL 101, ITAL 102, ITAL 103, ITAL 201, or ITAL 202 when equivalent credit has been accepted from high school as part of admission credits except that student is allowed to duplicate one unit of high school study with university credit and that student with two years of high school study is allowed to take ITAL 102 and ITAL 103 for credit.

ITAL 489. ITALIAN LITERATURE: ADVANCED STUDIES (3). Study of author, literary school, genre, or selected theme. May be repeated to nine hours if topics are clearly different. Prerequisites: ITAL 361 and ITAL 362.

Japanese (JAPN)

JAPN 101. ELEMENTARY JAPANESE (4) I. Introduction to modern spoken Japanese. Four class periods and scheduled oral practice.

JAPN 102. ELEMENTARY JAPANESE (4) II. JAPN 101 continued. Development of reading and writing skills. Prerequisite: JAPN 101.

JAPN 103. ELEMENTARY JAPANESE (4) III. JAPN 102 continued. Attention to all basic skills. Prerequisite: JAPN 102.

JAPN 201. INTERMEDIATE JAPANESE (4) I. JAPN 101-102-103 continued. Conversation, writing, reading, grammar. Prerequisite: JAPN 103 or equivalent.

JAPN 202. INTERMEDIATE JAPANESE (4) II. JAPN 201 continued. Prerequisite: JAPN 201 or equivalent.

Journalism (JOUR)

★ **JOUR 103. INTRODUCTION TO MASS COMMUNICATIONS** (4) I, II, III, IV. Survey of modern journalism; newer mass communications media; role and influence of press, radio, television, and related fields of advertising and public relations.

★ **JOUR 105. MASS COMMUNICATIONS THEORY AND PRINCIPLES** (4) I, II, III. Techniques of print and audio-visual journalism; language usage, article and publication organization, photography, graphic design, film, television, and multi-media presentations.

JOUR 203. HISTORY OF JOURNALISM (4) III, IV. English backgrounds, development of mass media in America from 1690 to present. Factors affecting reporting and presentation of news in print and electronic journalism.

★ **JOUR 300. INTRODUCTION TO JOURNALISTIC WRITING** (4) I, II, III. Practice in basic forms of newspaper, magazine, broadcasting, and public relations writing. Prerequisite: "C" or better in JOUR 105; must pass English language proficiency test.

JOUR 302. COPY EDITING (4) I, II, III. Theory and practice in editing local and wire news, headline writing, picture editing, evaluating news, layout and design. Prerequisite: "C" or better in JOUR 311.

JOUR 303. EDITING SPECIALIZED PUBLICATIONS (4) I, II, III. Theory and practice of editing functions and techniques in producing specialized publications; magazines, newspapers, newsletters and brochures for business/industry and other organizations. Prerequisites: "C" or better in JOUR 300 and VCT 208; plus 2.5 GPA in JOUR 103 and JOUR 105 and JOUR 300 or pass test covering same.

JOUR 304. FEATURE WRITING (4) II. Writing simple newspaper feature story, short magazine article, and longer illustrated article. Articles submitted for publication. Prerequisites: "C" or better in JOUR 300; plus 2.5 GPA in JOUR 103 and JOUR 105 and JOUR 300 or pass test covering same.

★ **JOUR 306. INTRODUCTION TO PHOTOJOURNALISM** (4) I, II, III. Function of pictures in newspapers, magazines, television, advertising. Practice in picture taking and darkroom procedures. One lecture and one three-hour laboratory. Student must provide own camera.

JOUR 307. PHOTOGRAPHIC COMMUNICATION (4) I, II. Practice in advanced problems of photography and evaluation of photographs for reproduction and communications. Two class meetings and one two-hour laboratory. Student furnishes camera and some materials. Prerequisite: "C" or better in JOUR 306.

JOUR 311. REPORTING (4) I, II, III. Researching and writing complex specialized types of news stories. Practice in covering assignments for publication. Prerequisites: "C" or better in JOUR 300; plus 2.5 GPA in JOUR 103 and JOUR 105 and JOUR 300 or pass test covering same.

JOUR 312. REPORTING OF PUBLIC AFFAIRS (4) I, II, III. Field practice in covering governmental and community affairs with attention to general and specialized areas. Prerequisite: "C" or better in JOUR 311 or JOUR 330.

JOUR 315. PRESS MANAGEMENT (4) II, III. Business problems of publishing — organization, financing, circulation, promotion. Mechanics of publication; various types of reproduction, adaptability of each, comparative costs, related problems.

JOUR 320. NEWSPAPER ADVERTISING (4). Newspaper advertising theory and practice; advertising production for small daily or weekly newspaper.

JOUR 330. RADIO-TELEVISION NEWS (4) I, II, III. Techniques of covering, writing, and editing news for radio and television broadcasting. Rewriting AP wire stories and use of still and movie cameras in preparing television newscasts. Student must provide own tape recorder and tapes. Prerequisite: "C" or better in JOUR 300 plus a 2.5 GPA in JOUR 103 and JOUR 105 and JOUR 300 or pass test covering same. Recommended: broadcast production course (RTVF 262 or RTVF 263) and photography course (JOUR 306 or RTVF 264 or RTVF 464).

JOUR 331. ADVANCED RADIO/TELEVISION NEWS (4) II, III. Study and practice in writing, editing, and producing radio and television newscasts and news and public affairs documentaries. Major news documentary production required. Student must provide own tape recorder and tapes. Prerequisite: "C" or better in JOUR 330 and RTVF 262 and RTVF 263 and one photography course (JOUR 306 or RTVF 264 or RTVF 464).

JOUR 340. PRINCIPLES OF PUBLIC RELATIONS (4) I, II. Public relations problems, policies, practices applied to corporate and noncorporate organizations; media, methods of communicating, survey research and attitude change.

JOUR 380. WRITING FOR PUBLIC COMMUNICATIONS (4) I, II, III. Professional writing for business and industry. Customary public relations forms: news releases, features, speeches, letters, reports, and internal/external publications. Prerequisites: "C" or better in JOUR 300; plus 2.5 GPA in JOUR 103 and JOUR 105 and JOUR 300 or pass test covering same.

JOUR 402. JOURNALISM LAW AND ETHICS (4) I, II, III. Legal limits of freedom of press, constitutional guarantees, libel, contempt, obscenity, privacy; ethical problems, right to know; law and electronic media. Prerequisite: junior or senior status.

JOUR 403. THE EDITORIAL (4) III. Techniques of editorial writing and role of editorial opinion in modern mass media. Prerequisite: JOUR 311 or consent of instructor.

JOUR 404. MAGAZINE ARTICLE WRITING (4) II, III. Preparation of articles aimed at magazine markets. Market analysis, researching topic, effective writing style. Prerequisite: "C" or better in JOUR 304.

JOUR 407. COLOR PHOTOGRAPHY (4) III. Theory and application of negative and reversal color processes and their limitations and advantages. Production of color transparencies, negatives, prints. Student provides supplies. Prerequisite: JOUR 307.

JOUR 412. FIELD EXPERIENCE (1-15) I, II, III, IV. Journalism internship program required of all journalism majors. Activity may be in more than one medium, full or part time. May be repeated up to 15 hours. Open to journalism majors only.

JOUR 414. SUPERVISION OF HIGH SCHOOL PUBLICATIONS (4) II. For teacher or prospective teacher of high school journalism or adviser of school newspaper or yearbook. Problems of editorial supervision, business management, production.

JOUR 416. MAGAZINE JOURNALISM (4) II, III. Practices, problems and trends in modern magazine publishing; analysis of editorial objectives, content, audience, format, production, and management. Prerequisite: "C" or better in JOUR 303 and JOUR 304.

JOUR 423. INTRODUCTION TO MASS COMMUNICATIONS RESEARCH (4). Mass communications from scientific standpoint. Research technique in advertising, public relations, newspaper, radio and television. Application of behavioral science research methods to communication research. Prerequisite: senior standing or permission of instructor.

JOUR 430. THE DOCUMENTARY (4) I, II, III. Research, writing, and preparation of news, informational and public service features, documentaries, and magazine programs. Individuals and teams prepare materials for broadcast after introductory study and practice. Prerequisite: JOUR 331.

JOUR 431. INTERPRETIVE REPORTING (4). Research and writing of depth reports, interpretive news, profiles, background stories, news analyses. Investigative reporting of current events and issues. Prerequisite: journalism major or graduate standing.

JOUR 432. SEMINAR IN NEWSROOM DECISION MAKING (4). Newspaper editorship; goal setting, problem analysis, readership analysis, publication conception and creation, staff management. Prerequisite: JOUR 302.

JOUR 433. GOVERNMENT AND THE PRESS (4). Origins and concept of freedom of information and evolution in constitutional law and judicial decisions; contemporary problems of censorship in publishing, broadcasting, film.

JOUR 435. PRESS AND SOCIETY (4) II. Press as institution; its role, content, effects, and responsibilities as cultural force in society.

JOUR 440. PUBLIC RELATIONS TECHNIQUES (4) II, III. Principal public relations theories, tools, and techniques; contact public relations for corporate and noncorporate organizations. Prerequisites: "C" or better in JOUR 303 and JOUR 340 and JOUR 380 and senior status.

JOUR 461. SPECIAL PROBLEMS IN JOURNALISM (1-8) I, II, III, IV. Research problems, practical projects, or intensive reading to meet needs of student's special interest. Open to seniors with approval of director.

JOUR 470. FOREIGN PRESS SYSTEMS (4) II. Social and political factors, organization, and controls in internal news and informational programs of countries around world. Prerequisite: senior standing or approval of instructor.

JOUR 471. INTERNATIONAL MEDIA NETWORKS (4) III. Factors affecting flow of world news and public information; regional and international networks. Prerequisite: senior standing or approval of instructor.

JOUR 481. TOPICS AND PROBLEMS IN PUBLIC RELATIONS (2-4) III. Issues and problems which confront public relations practitioner in corporate and noncorporate communications programs. May be repeated to maximum of eight hours, subject to approval of director of School of Journalism.

JOUR 491. SENIOR SEMINAR: NEWS-EDITORIAL (2) I, II, III. Guided readings, discussions and research in journalism literature, philosophy, and current issues touching on newspaper journalists. Required of all news-editorial majors. Prerequisite: senior status.

JOUR 492. SENIOR SEMINAR: MAGAZINE (2) I, II, III. Guided readings, discussions and research in journalism literature, philosophy, and current issues touching on magazine journalists. Required of all magazine majors. Prerequisite: senior status.

JOUR 493. SENIOR SEMINAR: BROADCAST (2) I, II, III. Guided readings, discussions and research in journalism literature, philosophy, and current issues touching on broadcast journalists. Required of all broadcast journalism majors. Prerequisite: senior status.

JOUR 494. SENIOR SEMINAR: PHOTOJOURNALISM (2) I, II, III. Guided readings, discussions and research in journalism literature, philosophy, and current issues touching on photojournalists. Required of all photojournalism majors. Prerequisite: senior status.

JOUR 495. SENIOR SEMINAR: PUBLIC RELATIONS (2) I, II, III. Guided readings, discussions and research in journalism literature, philosophy, and current issues touching on publicists. Required of all public relations majors. Prerequisite: senior status.

Latin (LAT)

***LAT 101. ELEMENTARY LATIN (4) I.** Beginning study with attention to grammar, reading, and translation of simple texts. Four class periods and scheduled oral practice each week.

***LAT 102. ELEMENTARY LATIN (4) II.** LAT 101 continued. Four class periods and scheduled oral practice each week. Prerequisite: LAT 101.

***LAT 103. ELEMENTARY LATIN (4) III.** LAT 102 continued. Four class periods and scheduled oral practice each week. Prerequisite: LAT 102 or one and one-half years of Latin in high school, or placement.

LAT 141. GREAT GREEK MINDS (4) I. Masterpieces of Greek literature: Homer, Sappho, Pindar, Aeschylus, Sophocles, Euripides, Aristophanes, Herodotus, Thucydides, Plato, Aristotle. No Greek required.

LAT 142. GREAT ROMAN MINDS (4) II. Masterpieces of Latin literature: Lucretius, Cicero, Catullus, Vergil, Horace, Livy, Ovid, Petronius, Tacitus, Juvenal, Martial. No Latin required.

LAT 145. GREEK AND LATIN ELEMENTS IN ENGLISH (4) III, IV. Terms and concepts derived from Greek and Latin occurring in English; designed for premedical, pre dental, prelaw, language, science majors.

***LAT 201. INTERMEDIATE LATIN (4) I.** Review of grammar; emphasis on syntax and readings and various authors. Four class periods and scheduled oral practice each week. Prerequisite: LAT 103 or two years of Latin in high school.

***LAT 202. INTERMEDIATE LATIN (4) II.** LAT 201 continued. Four class periods and scheduled oral practice each week. Prerequisite: LAT 201 or three years of Latin in high school.

LAT 351. LATIN PROSE COMPOSITION (5). Latin syntax; emphasis on word order and sentence structure. Prerequisite: LAT 202.

LAT 405. LATIN COMEDY (3). Origins and development of Latin comedy. Reading and evaluation of selected texts including one complete play of either Terence or Plautus. Prerequisite: LAT 351.

LAT 414. ADVANCED LATIN GRAMMAR (3). Developing increased ability to understand structural peculiarities of classical Latin. Prerequisite: LAT 351.

LAT 465. VIRGIL: AENEID (3). Content of Aeneid; metrical reading and interpretation of one book and selections from others. Prerequisite: LAT 351.

*Credit toward graduation is not allowed for LAT 101, LAT 102, LAT 103, LAT 201, or LAT 202 when equivalent credit has been accepted from high school as part of admission credits except that student is allowed to duplicate one unit of high school study with university credit and that student with two years of high school study is allowed to take LAT 102 and LAT 103 for credit.

LAT 471. CICERO'S ESSAYS (3). Two representative works. Prerequisite: LAT 351.

LAT 472. CICERO'S LETTERS (3). Reading and translation of selected letters. Prerequisite: LAT 351.

LAT 475. HORACE. Metrical reading, translation, evaluation of representative works. Prerequisite: LAT 351.

LAT 476. LIVY (3). Reading, translation, evaluation of significant parts of *Historiae*. Prerequisite: LAT 351.

LAT 480. CLASSICAL MYTHOLOGY (3). Study in English of Greek and Roman myths; historical meaning and influence on life, literature, and art. No Latin required.

LAT 481. ROMAN LIFE (3) III, IV. Study in English of daily life and customs in Rome as described in literature and attested by history, art, archeology. No Latin required.

LAT 485. GREEK LITERATURE IN ENGLISH (4) I. Thought and action of ancient Greeks as seen mainly through their literary works. For majors and minors in Latin and other languages and students wanting to fulfill humanities requirement; no Greek required.

LAT 486. LATIN LITERATURE IN ENGLISH (4) I. Thought and action of ancient Romans as seen mainly through their literary works. Intended for majors or minors in Latin and other languages and for students wanting to fulfill humanities requirement; no Latin required.

LAT 489. LATIN LITERATURE: ADVANCED STUDIES (3). Intensive study of author, genre, or selected theme. May be repeated to nine hours if topics are clearly different. Prerequisite: LAT 351.

LAT 491. READINGS IN LATIN LITERATURE (1-4) I, II, III, IV. Advanced reading for students wishing to study special period or great author. Prerequisite: consent of chair or department and instructor.

Latin-American Studies (LAS)

LAS 401. LATIN-AMERICAN STUDIES SENIOR SEMINAR (4) II. For senior majoring in Latin-American studies and other interested students. Examination of literature, problems of research and writing, discussion of methods. Required of Latin-American studies major.

Legal Studies (LEGS)

LEGS 200. PERSPECTIVES OF AMERICAN LAW (4) I, II, III. Thematic case study of family law, property, privacy, torts, criminal law, and other areas which explain social forces that give substance to American law, analysis and reasoning behind court decisions. Prerequisite: 30 hours.

★ **LEGS 301. GENERAL BUSINESS LAW** (4) I, II, III, IV. Historical, political, economic background to business law. Origin, development, fundamentals of contracts and sales. Economic role of contracts in facilitating goods and services. Prerequisite: junior standing.

LEGS 302. GENERAL BUSINESS LAW (4) II, III, IV. LEGS 301 continued. Law of sales, common carrier, partnerships and corporations, and agency law. Prerequisite: LEGS 301.

LEGS 305. COMPARATIVE LEGAL PHILOSOPHY (4) I. Legal philosophy and comparative law using legal systems of Western, Communist, and developing countries as models; treatment of commercial obligations and constitutional rights within different legal systems.

LEGS 306. INTERNATIONAL LEGAL PROTECTION OF HUMAN RIGHTS (4) II. Role of international law in promotion of protection of human rights. Body of procedural and substantive law defining international rights and freedoms generally acceptable to member states of international community. Prerequisite: LEGS 305 or permission of instructor.

LEGS 310. LAW AND CITIZEN (4) I. Major social issues of today and how judicial system shapes social policy and reform; consumer protection and other annually selected social issues being adjudicated in courts: discrimination and reverse discrimination, capital punishment, reform of legal system, problems in criminal justice system, freedom of speech and assembly, obscenity and pornography, etc. Prerequisite: junior standing or permission of instructor.

LEGS 340. ADMINISTRATION OF CRIMINAL JUSTICE (4) III. Legal and sociological perspectives in which police, criminal courts, juries, judges, and correction systems operate. When possible, qualified criminologists assist in teaching.

LEGS 406. INTERNATIONAL LEGAL TRANSACTIONS (4) III. Legal problems faced by individual and corporate business persons when operating within international framework. Methods of control of multinational corporate entities, effect of doing business as national or foreign firm, and act of state doctrine relating to expropriation of assets of foreign firm.

LEGS 413. TRUSTS AND ESTATES (4) I. Execution, administration, revocation of wills and trusts; guardianships; life insurance estates; insurance law relating to estates, their protection, and liability; role of wills and trusts in distribution of wealth. Prerequisite: LEGS 301.

LEGS 414. LIABILITY LAW (4) II. History and development of modern concepts in areas of personality, privacy, product and service liabilities; legal problems in advertising, responsibility to work force, and ecology.

LEGS 415. REALTY LAW (4) III. Creation, acquisition, transfer of realty; deeds and mortgages as security devices and their economic implications; landlord-tenant relations and economic role of leasehold interests.

LEGS 417. LAW OF BUSINESS ASSOCIATIONS (4) III. Establishing relation of agency, partnership, and corporation and legal incident thereto; fundamentals of Uniform Partnership Act, Model Corporation Act; economic implications as business entities. Prerequisite: LEGS 301.

LEGS 419. PRIVATE LABOR LAW (4) II. Federal legislation in defining roles of labor organizations and management as they interrelate in private industry; National Labor Relations Act, as amended, and 1964 Civil Rights Act, as amended, prohibiting discrimination in employment.

LEGS 420. COMMERCIAL LAW (4) II, IV. Legal environment created by Uniform Commercial Code in transactions involving personal property sales, marketing, advertising, and negotiable instruments; their economic role in facilitating goods and services. Prerequisite: LEGS 301.

LEGS 421. ADMINISTRATIVE LAW (4) III. Regulation of business and policy implications for public; antitrust, trade practices, equal opportunity employment, environmental restraints, public utilities.

LEGS 425. HEALTH CARE LAW (4) I. Public-private constraints in foundation health agencies; experimentation and risk assumption; agency and independent contract liability; reasonable standards of care doctrines; governmental regulations.

LEGS 431. ENVIRONMENTAL LAW (4) II. History and development of modern concepts in environmental law; air, water, land, noise; problems in legal alternatives and tax incentives.

LEGS 450. PUBLIC LAW (4) III. Legal problems encountered by administrator of federal, state, or municipal institutions (public universities, schools, hospitals, welfare and administrative agencies, etc.): developing public labor law (right of public employees to organize and strike); limitations of suing public institution (sovereign and official immunity); constitutional, due process limitations and contractual limitations on public administrator's decisions.

LEGS 491. STUDIES IN BUSINESS LAW (1-4) II. In-depth study of selected areas. Offered to individual student on lecture basis or as seminar depending on student needs and nature of material. May be repeated to eight hours.

LEGS 495. READINGS FOR HONORS IN BUSINESS LAW (1-4) I, II, III. For student in business administration who wishes to pursue supervised independent program of reading and study. Prerequisite: 3.0 accumulative GPA, consent of department.

Library and Educational Media (L&EM)

L&EM 203. INTRODUCTION TO LIBRARIANSHIP (4). Profession of librarian/information/media specialist; types of library/media centers, jobs performed, professional literature and organizations, history of libraries and materials.

L&EM 301. BASIC EDUCATIONAL MEDIA (2) I, II, III, IV. Selection and operation of common classroom educational media. Prerequisite: EDFI 302. C/F hrs.: 10.

L&EM 395. WORKSHOP IN EDUCATIONAL MEDIA (1-4). On demand. Study, readings, and development of materials to meet needs of practitioners. Topics vary from quarter to quarter. May be repeated with consent of adviser.

L&EM 403. REFERENCE SERVICES AND MATERIALS (4). Basic sources of information and use in providing library/information/media services.

L&EM 404. HISTORY OF BOOKS AND LIBRARIES (4). Development of books and libraries from earliest times to present; roles as agents of communication.

L&EM 405. GOVERNMENT PUBLICATIONS (4). Nature, use, acquisition, and organization of printed materials issued by federal, state, and local governments and international agencies. Prerequisite: L&EM 403 or consent of instructor.

L&EM 407. SELECTION OF MATERIALS (5). Principles of selection and acquisition of print and nonprint materials. C/F hrs.: 15.

L&EM 408. CLASSIFICATION AND CATALOGING (5). Tools and basic procedures of technical processing and organizing of library materials.

L&EM 411. MATERIALS FOR SECONDARY SCHOOL MEDIA CENTERS (4) I, III. Print and nonprint materials and program ideas for secondary school media centers. Special needs of adolescents including gifted and retarded. C/F hrs.: 15.

L&EM 428. UTILIZATION OF EDUCATIONAL MEDIA (4). Audio-visual materials in improving instruction; selection, production, use, and evaluation. C/F hrs.: 16.

L&EM 430. PREPARATION OF INSTRUCTIONAL MATERIALS (4). Planning, designing, and producing audiovisual materials in terms of stated objectives. C/F hrs.: 22.

L&EM 431. VISUAL COMMUNICATION IN INSTRUCTION (4). On demand. Role of visual stimuli in teaching/learning environments; instructional drawing. Prerequisite: L&EM 428 or consent of instructor.

L&EM 433. CLASSROOM TELEVISION (4) I, IV. Use of television as integral part of teacher-directed classroom activities. Prerequisite: L&EM 428 or consent of instructor.

L&EM 434. INDIVIDUALIZING INSTRUCTION WITH EDUCATIONAL MEDIA (4). Application of materials, techniques, and equipment to functional programming of individualized instruction. Prerequisite: L&EM 428 or consent of instructor.

L&EM 435. PROGRAMMED INSTRUCTION (4). Programmed instruction and teaching machines; preparation, evaluation, and revision of programmed sequences. Prerequisite: L&EM 428.

L&EM 438. SELECTION, MAINTENANCE, AND REPAIR OF MEDIA EQUIPMENT (4) I, II, III, IV. Role of teacher and media specialist in selection, maintenance, and repair of classroom media equipment at building level. Prerequisite: L&EM 428 or consent of instructor.

L&EM 441. STORYTELLING (4). Technique and practice of storytelling in libraries, classrooms, etc. Selection of traditional and modern literature to tell and read aloud. Prerequisite: ENG 342 or consent of instructor.

L&EM 450. MEDIA CENTER IN SCHOOL (4). Organization and administration of school media center. Prerequisite: 15 hours of L&EM. C/F hrs.: 25.

L&EM 455. INSTRUCTIONAL MEDIA IN INDUSTRY, BUSINESS, AND GOVERNMENT (4). Design, production, use, and evaluation of instructional media in nonschool settings

L&EM 490. PROBLEMS IN LIBRARY AND EDUCATIONAL MEDIA (1-4). Independent study of selected topics. May be repeated to eight hours. Prerequisite: consent of instructor.

L&EM 491. FIELD WORK (4). Supervised field work in library or media center approved by department. Prerequisite: consent of instructor.

Linguistics (LING)

LING 310. INTRODUCTION TO LINGUISTICS (4) II, III. Nature of languages and human communication; principles and procedures for analyzing and describing languages; language change and variation. Prerequisite: sophomore standing.

LING 490. SPECIAL PROBLEMS IN LINGUISTICS (2-4) I, II, III. Theories and applications of linguistics studies or problems in languages, literatures, psychology, speech, and other related fields. Prerequisite: LING 310.

Management (MGMT)

★ **MGMT 300. INTRODUCTION TO PRODUCTION AND OPERATIONS MANAGEMENT (4) I, II, III.** Operations of firm; fundamentals of operations research; design of production systems; operation, coordination, and control of production activity; major analytical tools for management; plant projects. Prerequisite: STAT 212 or equivalent.

★ **MGMT 305. PRINCIPLES OF ORGANIZATION AND MANAGEMENT (4) I, II, III.** Fundamentals of organization theory; objectives, policies, decision-making, authority, management development, leadership, communication, motivation, and effective human relations as related to management principles. Not open to business majors.

MGMT 330. PROCUREMENT (4) I, III. Management of procurement; process of establishing need, source selection, pricing, specifications, negotiation and bidding, quality assurance, value analysis, make or buy, procedures, legal considerations, and computer systems. Related to industrial, governmental, and institutional utilization. Prerequisite: MGMT 300.

MGMT 331. MANAGING TECHNOLOGICAL AND ENVIRONMENTAL CHANGE (4) II. Administrative and decision-making approaches to managing internal and external human and technical systems; pluralistic forces interfacing with organization, modes of accommodation available to managers, and motivational approaches associated with environmental change, innovation, and involvement.

MGMT 360. ORGANIZATIONAL THEORY AND BEHAVIOR

(4) I, II, III. Micro-relationships in organizations: historical perspective, changing nature of organizations, and individual and overall group behavior.

MGMT 361. PERSONNEL ADMINISTRATION

(4) I, II, III. Design, organization, and operation of personnel function. Planning manpower needs, developing human resources, appraising performance, developing compensation systems, and compliance with applicable government regulations such as EEO, OSHA, and ERISA. Not open to human resource management majors or to students with credit for MGMT 450 or MGMT 451. Prerequisite: MGMT 305 or MGMT 360.

MGMT 365. ADVANCED THEORY AND BEHAVIOR I

(4) II, III. Group and organizational variables which influence organizational behavior; group development and behavior, organizational design, and organizational processes. Prerequisite: MGMT 360.

MGMT 409. INTERNSHIP (1-4) I, III. Experience in approved business position. Student participates in seminar to formally evaluate work experience. Must be arranged in advance and approved by coordinator. Work experience must be completed within one year of acceptance into program. Not open to students with credit from any similar program in College of Business Administration.

MGMT 430. MATERIALS MANAGEMENT

(4) I, II. Conceptual and analytical framework of material management problems. Development and evaluation in depth of materials management system components: facility location, transportation, inventory requirements, materials handling, order processing. Prerequisite: MGMT 330 or permission of instructor.

MGMT 439. PROCUREMENT AND MATERIALS MANAGEMENT PROBLEMS

(4) III. Capstone course integrating principles from other required courses; lectures, case discussions, simulations, and research projects. Prerequisite: MGMT 430 or permission of instructor.

MGMT 441. PROCESS PLANNING

(4) I, III. Effective design of production transformation process. Forecasting methods for output requirements. Macroprocessing modes and attendant problem areas such as layout of production facilities and line balancing; microprocessing aspects such as work design and measurement, and process selection. Prerequisite: MGMT 300.

MGMT 442. INVENTORY SYSTEMS PLANNING

(4) I, II. Traditional theories and techniques of inventory control. Current inventory methodology such as material requirements planning; broad range of inventory control problems. Prerequisite: MGMT 300.

MGMT 445. PRODUCTION PLANNING AND SCHEDULING

(4) I, II. Short range productions scheduling such as job shop scheduling; intermediate range scheduling such as aggregate planning and scheduling; long term scheduling such as capacity and replacement analysis. Prerequisite: MGMT 300.

MGMT 447. PRODUCTION SERVICES AND QUALITY CONTROL

(4) II. Production support services; quality systems and control, product reliability, systems maintenance, safety management. Prerequisite: MGMT 300 or equivalent.

MGMT 449. PROBLEMS IN PRODUCTION AND OPERATIONS MANAGEMENT

(4) III. Integrates all principles, theories, and techniques gained from previous courses into broad perspective. Case study, simulation, and individual projects. Prerequisites: MGMT 441 and MGMT 445, or permission of instructor.

MGMT 450. HUMAN RESOURCE MANAGEMENT I

(4) I. Concepts and skills involved in staffing, appraisal, placement, training, development, and compliance with applicable governmental regulations including EEO. Prerequisites: MGMT 360 and MGMT 300.

MGMT 451. HUMAN RESOURCE MANAGEMENT II

(4) II. Concepts and skills required in job evaluation, wage and salary administration, health and safety, and compliance with applicable governmental regulations, including OSHA and ERISA. Prerequisites: MGMT 360 and MGMT 300.

MGMT 460. MANAGEMENT ORGANIZATION SYSTEMS: ANALYSIS AND DESIGN

(4). On demand. Application of systems concepts, methods, and strategies in designing total planned management organization system; how one designs, maintains, and controls total organization system whether profit/nonprofit or government/private. Prerequisite: MGMT 365.

MGMT 461. ADVANCED ORGANIZATION THEORY AND BEHAVIOR II

(4) I, III. Individual and interpersonal variables which influence organizational behavior; motivation theory, personality theory, interpersonal processes, and helping relationship. Prerequisite: MGMT 360.

MGMT 465. ORGANIZATION DEVELOPMENT THEORY.

(4) I. Theory of organization development; history, philosophy, process, and technology of organization development; consulting process and diagnostic methodology. Prerequisite: MGMT 365 and MGMT 461.

MGMT 466. ORGANIZATION DEVELOPMENT TECHNOLOGY: THEORY AND PRACTICE.

(4) II. Major organization development techniques for changing organizations: laboratory training, process consultation, conflict management, team building, intergroup building, organizational mirroring, survey-feedback, open system planning, organizational sensing, and organizational confrontation meetings. Prerequisite: MGMT 465.

MGMT 468. ORGANIZATION DEVELOPMENT FIELD EXPERIENCE

(4) III. Skills in use of evaluating organizations, designing interventions, and carrying out change in organizational systems. Prerequisite: MGMT 466.

MGMT 471. INTERNATIONAL MANAGEMENT

(4) III. Organizational and operational aspects of international business management; problems of conducting business outside continental U.S. Prerequisite: MGMT 300.

MGMT 491. STUDIES IN MANAGEMENT

(1-4). On demand. Selected areas not covered by existing courses but which are developing rapidly as important parts of discipline. Offered to individual on lecture basis or in seminar, depending on student need and course content. May be repeated to eight hours.

MGMT 495. READINGS FOR HONORS IN MANAGEMENT

(1-3) I, II, III. For superior student who desires individual reading program to broaden knowledge of management literature on semi-independent basis. Prerequisite: academic standing in upper 20 percent of class.

Management Information Systems (MIS)*** MIS 200. INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS**

(4) I, II, III. Data processing principles; logical analysis; computer programming; introduction to information systems theory; computer system environment in business. Language used is extended BASIC.

was info 1100

MIS 471. COMPUTER-BASED INFORMATION

SYSTEMS (4) I. Analysis of information requirements, design and processing methods project, and data management. Prerequisites: OPRE 380 and senior standing and knowledge of computer programming, or consent of instructor.

MIS 473. CONTEMPORARY TOPICS IN MANAGEMENT INFORMATION SYSTEMS (4) II. Topics shift as the business utilization of computers evolves. See instructor for current content. Prerequisite: MIS 471.

MIS 474. CASES IN COMPUTER-BASED INFORMATION SYSTEMS (4) III. Information systems in action; case approach. Prerequisites: MIS 471 and MIS 473.

★ **MIS 475. ROLE OF COMPUTER IN HEALTH CARE (4) I, II, III.** Uses of computers in hospital information and cost systems; medical records, nutrient accounting, clinical and diagnostic handling. Prerequisite: introductory computer course or consent of instructor.

MIS 491. STUDIES IN COMPUTER-BASED INFORMATION SYSTEMS (1-5). On demand. Selected areas or contemporary problems. May be offered individually as well as in classes, depending on student needs and nature of material.

Manufacturing Technology (MFG)

(See technology)

Marketing (MKT)

★ **MKT 300. MARKETING (4) I, II, III.** Marketing of goods and services from producer to consumer; management of marketing activities and institutions.

★ **MKT 340. PERSONAL SELLING (4) I, II, III.** Economic and behavioral relationships among customer needs, buying motives, seller's performance affecting sales of industrial goods, consumer goods, intangibles; theory, principles, role playing in selling.

MKT 401. PROBLEMS IN MARKETING MANAGEMENT (4) I, II, III. Readings and case studies involving organization and management of marketing institutions and functions. Prerequisite: MKT 300.

MKT 402. CONSUMER BEHAVIOR (4) I, II. Consumer behavior effects on marketing policies, functions, institutions. Prerequisite: MKT 300.

MKT 403. MARKETING PLANNING (4) I, II, III. Integrating, capstone course; student develops and presents marketing plan for real and unsolved problem. Prerequisites: MKT 300 and MKT 401 and MKT 420.

MKT 404. MARKETING FOR NONPROFIT ORGANIZATIONS (4) III. Application of major concepts and tools of marketing to operations of public and private nonprofit organizations; i.e. government agencies, educational institutions, health care organizations. Prerequisite: MKT 300.

MKT 409. MARKETING INTERNSHIP (1-4) I. Experience in approved business position; student participates in seminar to formally evaluate work experience. Program must be arranged in advance and approved by coordinator. Work experience must be completed within one year from acceptance into program. Credit determined by quality and extent of work experience. Not open to student with credit for ACCT 409 or BA 409 or MGMT 409.

MKT 410. ADVERTISING (4) I, II, III. Social and economic aspects, merchandising, research, motivation, media, appropriation, and techniques. Prerequisite: MKT 300.

MKT 411. ADVERTISING CREATIVITY (4) II. Creative process applied to promotion. Theory and practice of creative aspects of advertising: copy, layout, and production. Prerequisite: MKT 410.

MKT 412. ADVERTISING PROBLEMS (4) III. Case studies evaluating opportunities for effective use of advertising, building promotional programs, selection of advertising media, methods of determining effectiveness of advertising. Prerequisite: MKT 410.

MKT 420. MARKETING RESEARCH (4) I, II, III. Marketing research as source of information relevant to solution of marketing problems. Technical aspects of research as related to manager's ability to judge soundness of research proposals and evaluate research findings. Prerequisite: MKT 300.

MKT 421. ADVANCED MARKETING RESEARCH (4) III. Using principles of research to solve marketing problems. Survey and experimental research projects from formulation to presentation of findings; sample design, questionnaire construction, data collection, tabulation, analysis. Prerequisite: MKT 420.

MKT 430. RETAILING (4) I, II, III. Evolution, organization, and operation of retailing. Prerequisite: MKT 300.

MKT 436. RETAIL MERCHANDISING (4) I, II, III. Merchandising functions: buying, selling. Merchandise planning, budgeting, procuring, pricing; sales promotion, inventory evaluation, cost analysis, and control. Prerequisite: MKT 430.

MKT 441. SALES MANAGEMENT (4) I, II, III. Management of sales function of firm. Administration of sales force and its activities in manufacturing and wholesaling enterprises; sales organization, operation, planning, and analysis. Prerequisite: MKT 300.

MKT 491. STUDIES IN MARKETING (1-4) I, II, III. Selected areas not covered by existing courses but which are rapidly developing as important part of marketing. Offered to individual on lecture basis or in seminar, depending on student needs and course content. May be repeated to eight hours. Prerequisite: consent of department chair.

MKT 495. READING FOR HONORS IN MARKETING (1-4) I, II, III. For superior student who wishes individual reading program to broaden knowledge of marketing literature of particular areas on semi-independent basis. Prerequisite: academic standing in upper 20 percent of class.

Mathematics and Statistics (MATH)*

The Department of Mathematics and Statistics offers regular and advanced placement tests to help program advisers match student needs and abilities with available course work. The regular placement test should be taken when a student is admitted, and arrangements to take it can be made through the appropriate college. If advisable, the advance placement test should be taken as soon as possible thereafter, and arrangements to take it can be made through the department office in 450 Mathematical Sciences Building.

The regular placement sequence is defined as follows:
1. Students with either one year of algebra in high school or satisfactory completion of MATH 090 should consider taking MATH 110.
2. Students with either two years of algebra and one year of geometry in high school or satisfactory completion of MATH 110 should consider taking MATH 130.
3. Students with either trigonometry in high school or satisfactory completion of MATH 130 should consider taking MATH 131.
4. Except for management information systems, operations research, or applied statistics, business students may consider taking MATH 124 and MATH 125 in place of MATH 131 and MATH 231.

*See also applied statistics (STAT)

CAUTION: Unless otherwise specified, a grade of "A", "B", "C", or "S" is required to maintain satisfactory progress within the curriculum when one course is listed as a prerequisite for another course. Any other grade fails to meet the prerequisite. However, MATH 131 with a grade of "A", "B", "C", or "D" meets the prerequisite for MATH 125, and MATH 125 with a grade of "A" or "B" meets the prerequisite for MATH 231.

MATH 090. ELEMENTARY ALGEBRA (5) I, II, III. Real number system, rational number system, and algebraic operations; solutions of linear and quadratic equations; functions, relations, and graphs. Credit cannot be applied towards any baccalaureate degree program. Under ordinary circumstances, student with two years of high school algebra would not need this course. Graded S/U only. Additional fee: \$10.

- ★ **MATH 110. COLLEGE ALGEBRA** (5) I, II, III, IV. Equations and inequalities, exponents and radicals, functions and graphs and polynomial, exponential and logarithm functions, complex numbers, and applications. Prerequisite: grade of "S" in MATH 090, or one year of high school algebra and a reported ACT math score of 14 or higher.
- ★ **MATH 115. INTRODUCTION TO STATISTICS** (5) I, II, IV. Description of data, binomial and normal distributions, estimation and testing of hypotheses for means and proportions. Prerequisite: three years of high school mathematics or satisfactory completion of MATH 110.
- ★ **MATH 121. TOPICS IN MODERN MATHEMATICS** (5). Language of sets, introductory logic, number systems, other topics. Not intended for improvement of algebra skills. Students needing additional preparation in algebra should take MATH 090 or MATH 110. MATH 121 and MATH 122 are terminal courses designed to expose student to selected topics in modern mathematics. These courses are not sequential. Not open to student with credit for any college mathematics course. Prerequisite: one year of high school algebra.
- ★ **MATH 122. FINITE MATHEMATICS** (5). Logic; set theory; finite probability theory; vectors, matrices and applications in probability theory. Prerequisites: three years of high school mathematics or satisfactory completion of MATH 110.
- ★ **MATH 124. BASIC CALCULUS I** (5) I, II, III, IV. Graphs, lines, functions, and differential calculus for functions of one variable, including applications. Not intended for students in physical sciences. Not open to students with grade of "C" or better in MATH 131. MATH 124-125 is concept-oriented calculus and matrix algebra sequence for students in social sciences, business, and other areas who are not eligible for MATH 131, but who need preparation for mathematically oriented courses in their fields. Prerequisite: two years of high school algebra and one year of geometry; or satisfactory completion of MATH 110; or consent of department chair.
- ★ **MATH 125. BASIC CALCULUS II** (5) I, II, III, IV. Integral calculus, exponential and logarithm functions, partial derivatives, and matrix algebra. Prerequisite: "C" or higher in MATH 124, or "D" or higher in MATH 131.
- MATH 129. TRIGONOMETRY** (3) I, II, III. Trigonometric functions, graphs, identities, equations, inverse functions, solution of triangles, complex numbers. Intended for students who have had good high school preparation in algebra and geometry but lack knowledge of trigonometry. Prerequisite: two years of high school algebra, one year of high school geometry, reported ACT math score of 24 or higher, and satisfactory completion of MATH 110.

- ★ **MATH 130. PRECALCULUS MATHEMATICS** (5) I, II, III, IV. Theory of equations, coordinate geometry, exponential, logarithmic, and trigonometric functions, applications. Overlaps with content of MATH 129. Prerequisite: satisfactory completion of MATH 110, or two years of high school algebra, one year of high school geometry, and a reported ACT math score of 19 or higher.
- ★ **MATH 131. CALCULUS AND ANALYTIC GEOMETRY I** (5) I, II, III, IV. Differential calculus with applications; the integral MATH 131-231-232-233 sequence is traditional calculus for well prepared students and is prerequisite for all advanced mathematics and statistics courses. Prerequisite: satisfactory completion of MATH 130; or two years of high school algebra, one year of geometry, one half year trigonometry or MATH 129, ACT math score of 24 and appropriate score on departmental placement test.
- ★ **MATH 226. MATHEMATICS OF FINANCE** (4) III. Simple and compound interest, ordinary annuities, amortization, sinking funds, bonds, life annuities, life insurance. Does not apply toward a major in MATH. Prerequisite: MATH 125 or MATH 231 or consent of instructor.
- ★ **MATH 231. CALCULUS AND ANALYTIC GEOMETRY II** (5) I, II, III. Continuation of MATH 131. Integral calculus, with applications. Derivatives and integrals of transcendental functions. Prerequisite: "C" or higher in MATH 131 or "B" or higher in MATH 125.
- ★ **MATH 232. CALCULUS AND ANALYTIC GEOMETRY III** (5) I, II, III. Curves and vectors in two and three dimensions, solid analytic geometry, differentiation and integration of functions of several variables. Prerequisite: MATH 231.
- ★ **MATH 233. CALCULUS AND ANALYTIC GEOMETRY IV** (4) I, II, III. Vector analysis, Taylor's theorem, L'Hospital's rule, improper integrals, infinite series. Topics from differential equations. Prerequisite: MATH 232.
- ★ ****MATH 241. MATHEMATICS FOR ELEMENTARY TEACHERS I** (5) I, II, III, IV. Numeration systems; set theoretic development of whole number system; relations; system of integers. Number theory. Open only to elementary education majors.
- ★ ****MATH 242. MATHEMATICS FOR ELEMENTARY TEACHERS II** (4) I, II, III, IV. Continuation of MATH 241. Rational and real number systems; informal geometry; basic probability. Open only to elementary education majors. Prerequisite: "C" or better in MATH 241.
- **MATH 243. MATHEMATICS FOR ELEMENTARY TEACHERS** (5) I, III. Equivalent to MATH 241 and MATH 242. Open only to elementary education majors. For well prepared, mathematically inclined students only. Prerequisite: three years of high school algebra and geometry. Not open to students who have taken or have credit in MATH 241 and/or MATH 242.
- ★ **MATH 247. FUNDAMENTALS OF STATISTICAL INFERENCE I** (4). Discrete probability models, random variables and distribution functions; sampling theory; problems in statistical inference. Preparation for MATH 347. Prerequisite: MATH 125 or MATH 131.
- ★ **MATH 291. TOPICS IN MATHEMATICS** (1-4). On demand. Designed to enrich and broaden student's view of mathematics by discussing topics not included in existing courses. Prerequisite: consent of instructor.
- ***MATH 295. HONORS COURSE IN MATHEMATICS** (1). Series of lectures by various department members surveying major areas of mathematics. To be taken upon completion of MATH 232. Prerequisite: invitation of department.

**For education credit only.

***Upon invitation from faculty, student may undertake honors program in mathematics. Open to major whose performance in analytic geometry and calculus has indicated his or her interest in mathematics and probable success. Graduation with honors in mathematics requires completion of course of study planned by student and department honors committee, and approval by department. One such program would be outstanding performance in MATH 295 and MATH 395, and MATH 495. Participation is voluntary and may be discontinued.

- MATH 311. HISTORY OF MATHEMATICS** (4) III. History through calculus. Prerequisite or corequisite: MATH 332.
- MATH 313. ELEMENTARY MATHEMATICAL LOGIC** (4). Propositional and predicate logic; nature of mathematical proof; applications to mathematics and computer science. Not open to students with credit for CS 313.
- MATH 315. INTRODUCTION TO AUTOMATA** (4). Automata as formal systems. Study of Turing Machines, compatible and recursive functions, propositional and predicate calculi, decision problems and generative grammars. Prerequisite: MATH 339 or CS 210. Not open to students with credit for CS 315.
- ★ **MATH 332. ELEMENTARY LINEAR ALGEBRA** (4) I, II, III. Systems of linear equations, vectors, matrices, determinants, linear transformations, vector spaces \mathbb{R}^2 , \mathbb{R}^3 . Applications. Techniques and some proofs. Prerequisite: MATH 231.
- MATH 335. NUMERICAL CALCULUS** (4). Basic numerical algorithms for computer use, polynomial interpolation, quadrature, solution of nonlinear equations and linear systems. Not open to student with credit for CS 350. Prerequisites: CS 101 and MATH 233 and MATH 332.
- ★ **MATH 337. DIFFERENTIAL EQUATIONS** (4) I, III. Equations of first, second, and higher order; linear equations with constant coefficients; series solutions; Laplace transform; numerical methods; applications. Prerequisites: MATH 233 and MATH 332.
- MATH 339. FUNDAMENTAL CONCEPTS OF MODERN ALGEBRA** (4). Introduction to modern algebra. Elementary properties of groups, rings, integral domains, and fields. Divisibility properties of integers, construction of rational numbers. Prerequisite: MATH 332 or consent of instructor.
- MATH 347. FUNDAMENTALS OF STATISTICAL INFERENCE II** (4). Continuation of MATH 247. Estimation; tests of hypotheses; general inference for large and small samples; topics in nonparametric statistics. Prerequisite: MATH 247.
- *****MATH 395. HONORS COURSE IN MATHEMATICS** (2). Problem solving; or resources of mathematics library, techniques involved in conducting search for articles bearing on selected topic. Prerequisite: invitation of department chair.
- MATH 401. NUMBER THEORY** (4). Divisibility, prime numbers; congruences, prime modulus, congruences of degree two; quadratic residues, quadratic reciprocity law; numerical functions, factorization of integers; elementary diophantine equations, applications. Prerequisite: MATH 339.
- MATH 402. MODERN GEOMETRY** (4). Axiomatic development of neutral and Euclidean geometry. Introduction to non-Euclidean geometry. Prerequisite: MATH 339.
- MATH 403. MODERN ALGEBRA I** (4). Topics from groups, normal subgroups, homomorphisms, theorems of Lagrange and Cayley; rings, ideals, Euclidean domains, abstract vector spaces. Prerequisite: MATH 339.
- MATH 404. MODERN ALGEBRA II** (4). Continuation of topics from MATH 403. Prerequisite: MATH 403.
- MATH 405. PROJECTIVE GEOMETRY** (4). Algebraic techniques to study projective properties of geometric configurations and plane curves; principle of duality, projective transformations, cross ratios, intersection theory, and classical theorems. Prerequisite: MATH 339.
- MATH 411. ELEMENTARY TOPOLOGY** (4). General properties of sets; topology of plane sets, closed sets, open sets in metric spaces; functions, continuous mapping, homeomorphisms, connectedness, and topological spaces. Prerequisite: MATH 233.
- **MATH 414. ADVANCED MATHEMATICS FOR ELEMENTARY TEACHERS I** (4). Basic mathematical systems; natural number system, induction, fields, groups; number theory; infinite sets; geometry. Prerequisite: "C" or better in MATH 242 or MATH 243.
- **MATH 415. ADVANCED MATHEMATICS FOR ELEMENTARY TEACHERS II** (4). Continuation of MATH 414. Prerequisite: consent of instructor.
- MATH 421. FOUNDATIONS OF MATHEMATICS I** (4) I, III. Logic; set theory (including informal discussion of infinite sets and cardinals); axiomatic method (including models, consistency, and independence). Prerequisite: MATH 339 or consent of instructor.
- MATH 422. FOUNDATIONS OF MATHEMATICS II** (4) III. Continuation of MATH 421; properties of first order logic. Prerequisite: MATH 421 or MATH 313 or consent of chair.
- MATH 426. MATHEMATICS OF LIFE CONTINGENCIES** (4). The mathematics of pensions and life annuities. Single life functions; measurement of mortality, net level premium reserves. Multi-life functions; joint life probabilities, last survivor and general multi-life functions. Prerequisite: MATH 226 or consent of instructor.
- MATH 430. ADVANCED CALCULUS** (4) I. Infinite sequences and series; uniform convergence; improper integrals; partial derivatives; Jacobians; change of variables; optimization. Prerequisite: MATH 233 or equivalent.
- MATH 432. LINEAR ALGEBRA WITH APPLICATIONS** (4) I, III. Matrices and vector spaces, eigenvalues, orthogonal matrices, positive definite matrices, quadratic forms. Possible applications: differential equations, Markov chains, least squares. Prerequisite: MATH 332 or consent of instructor.
- MATH 434. VECTOR CALCULUS** (4) II. Differential calculus of vector functions; inverse and implicit function theorems; line and surface integrals; theorems of Green, Gauss, and Stokes. Prerequisites: MATH 233 and MATH 332.
- MATH 437. QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS** (4). Existence theorems for linear and nonlinear equations, systems of first order linear equations, nonlinear equations and stability; applications. Prerequisite: MATH 337.
- MATH 439. BOUNDARY VALUE PROBLEMS OF DIFFERENTIAL EQUATIONS** (4). Boundary value problems, Sturm-Liouville theory, singular boundary conditions, Fourier series, partial differential equations of mathematical physics, e.g., heat, wave, and Laplace's equation in one and several dimensions. Applications. Prerequisite: MATH 337.
- MATH 441. PROBABILITY AND STATISTICS I** (4) I, III. Probability spaces, discrete and continuous random variables and their distributions, expected value, and Central Limit Theorem. Prerequisite or corequisite: MATH 233.
- MATH 442. PROBABILITY AND STATISTICS II** (4) II. Continuation of MATH 441; sampling distributions, estimation of parameters, and tests of hypotheses. Prerequisite: MATH 441.
- MATH 443. PROBABILITY AND STATISTICS III** (4) III. Maximum likelihood estimation, Neyman-Pearson lemma, most powerful tests, class data, regression analysis, nonparametric statistics. Prerequisites: MATH 442 and MATH 332.
- MATH 445. FINITE MARKOV CHAINS** (4). Discrete Markov probability models, properties and applications; random walks, gas diffusion, genetics, heat transfer, and pollution flow. Prerequisites: MATH 332 and MATH 441, or consent of instructor.

MATH 451. NUMERICAL ANALYSIS (4) I, IV.

Development of numerical methods which are efficient, accurate, and suitable for high-speed digital computation; zeros of polynomial and transcendental functions; numerical differentiation and integration; solution of linear systems by direct and by iterative methods; matrix inversion. Selected algorithms programmed for solution on computer. Prerequisite: MATH 332 and programming experience. Not open to student with credit for CS 451.

MATH 452. NUMERICAL ANALYSIS (4) II. Computation of eigenvalues and eigenvectors of matrices; least squares, trigonometric, and Chebyshev approximation; numerical solution of initial value and boundary value problems in ordinary differential equations; introduction to numerical solution of partial differential equations. Prerequisite: MATH 332 and programming experience. Not open to student with credit for CS 452.

MATH 461. INTRODUCTION TO COMPLEX ANALYSIS

(4). Complex numbers, complex valued functions, differentiation of complex valued functions, analytic functions, power series, integration, contour integrals, residues and poles, conformal mapping, applications. Prerequisite: MATH 334 or MATH 465 or consent of chair.

MATH 465. INTRODUCTION TO ANALYSIS I (4) I. Sets, functions, and properties of real numbers. Numerical sequences and series. Limits, continuity, uniform continuity for real functions. Differentiation and Riemann integration. Prerequisite: MATH 233.

MATH 466. INTRODUCTION TO ANALYSIS II (4). Riemann-Stieltjes integration, metric spaces, sequences and series of functions, convergence and uniform convergence, equicontinuity, power series, Stone-Weierstrass theorem. Prerequisite: MATH 465.

MATH 467. INTRODUCTION TO ANALYSIS III (4). Lebesgue measure and integration, functions of several variables, including derivatives and inverse and implicit function theorems. Prerequisite: MATH 466.

MATH 490. READINGS IN MATHEMATICS (1-4).

Independent study of topic of particular interest to advanced student under direction of faculty member. May be repeated. Prerequisites: consent of instructor and chair of department.

MATH 491. TOPICS IN MATHEMATICS (4). On demand. Selected topics in mathematics not included in existing courses. May be taken twice for credit. Prerequisite: consent of instructor.

*****MATH 495. HONORS COURSE IN MATHEMATICS**

(1). Directed study in some field of mathematics; preparation and presentation of research topic. To be taken concurrently with two or more hours of MATH 490. Prerequisite: invitation of department chair.

Medical Record Administration (MRA)

MRA 401. MEDICAL RECORD SCIENCE V (4) I. History and development of patient information systems; analysis of medical record development, content, format, quantitative and qualitative evaluation. Health care information retention, storage, retrieval systems; medical record administrator's role in health information systems. Prerequisites: enrollment in MRA program and senior standing, or permission of instructor.

MRA 402. MEDICAL RECORD SCIENCE VI (4) II. Disease and operation classification systems; use of manual and computerized medical information indexing and registry systems. Statistical reporting in medical record department; computation, presentation and analysis of related statistics, definitions, sources, collection and reporting systems. Introduction to research methodology. Prerequisites: enrollment in MRA program and senior standing, or permission of instructor.

MRA 403. MEDICAL RECORD SCIENCE VII (3) II. Legal aspects of medical records; analysis of medical record as legal document, medical and legal requirements of health care delivery system; confidentiality and release of medical information. Prerequisites: enrollment in MRA program and senior standing, or permission of instructor.

MRA 404. MEDICAL RECORD SCIENCE VIII (4) III. Planning, organizing, staffing, actuating and controlling medical care information system using systems analysis techniques. Application of principles through management processes. Prerequisites: enrollment in MRA program and senior standing, or permission of instructor.

MRA 410. SEMINAR—TRENDS IN MEDICAL RECORD ADMINISTRATION (2) III. Topics, trends, constraints affecting the profession; directed practice experience, articles, and case studies. Prerequisites: enrollment in MRA program and senior standing, or permission of instructor.

MRA 489. MEDICAL RECORD DIRECTED PRACTICUM III (5) III. On-site management experience in health care facility medical record department under direction of medical record administrator; emphasis on management of health information systems and personnel. Prerequisites: enrollment in MRA program and senior standing, or permission of instructor.

Medical Record Technology (MRT)

† **MRT 100. INTRODUCTION TO MEDICAL RECORDS SCIENCE (2).** Historical development of medicine; its important people, hospitals, and accrediting agencies with respect to medical record keeping; medical profession and organization of medical staff within the health care institution; history of medical record profession and study of code of ethics of a medical record technologist as a professional. Two-hour lecture.

† **MRT 101. MEDICAL TERMINOLOGY (5).** Vocabulary and terms used by medical personnel; prefixes, suffixes, word roots, and their combining forms, usage, spelling, and pronunciation; specialized terms within body systems. Five hour lecture.

† **MRT 102. MEDICAL TRANSCRIPTION (4).** Skill in use of transcription equipment and expansion of medical terminology and typing accuracy and speed. Practice in typing medical, operative, clinical, summary, laboratory, history, physical and admission reports. Some foreign dictation is used to gain practice in transcribing different dialects. Two hour lecture, six hours lab. Prerequisite: MRT 101 and typing proficiency as indicated with a grade of "C" or better in BUSE 112.

† **MRT 111. MEDICAL RECORD SCIENCE I (4).** Basic functions of medical record department; alphabetical and numerical filing, practice in simulated serial, alphabetical, terminal digit and master index filing systems with hard copy and microfilmed patient records; retention of medical records, forms design and control; accrediting agencies' definitions of, standards for, and development of the medical record as to content, format, evaluation, and completion; analysis of record deficiencies. Four hour lecture and assigned lab. Prerequisite: MRT 100 and formal admission to MRT program.

† **MRT 112. MEDICAL RECORD SCIENCE II (4).** Coding, classifying and indexing operations according to ICD-9-CM; registers and indexes these procedures generate and requirements for their maintenance. Abstraction of medical data from patient records. Four hours lecture and assigned labs. Prerequisite: MRT 111.

- † **MRT 201. MEDICAL RECORD DIRECTED PRACTICE** (3). Retrieving and filing medical records, coding diseases and operation; abstracting and retrieving medical data and analyzing chart deficiencies. Performing receptionist duties, master patient index filing, admission procedures and transcribing dictated medical reports in a supervised learning experience at an assigned medical record department under the instruction of a professional medical record practitioner. Twenty-four hours lab. No remuneration; see policy on transportation and uniforms. Repeated up to six credits. Prerequisite: BIOL 332 and MRT 102 and MRT 112.
- † **MRT 204. PATHOPHYSIOLOGY** (5). Disordered human functions and systems; language, causes and types of diseases. Cellular injury, inflammation, metabolic dysfunctions, representative diseases, endocrine imbalance, disturbances in blood and body fluids, hypersensitivity, infectious diseases, physical and chemical injury, hereditary disorders and congenital defects. Five-hour lecture. Prerequisite: BIOL 104, 331, and 332.
- † **MRT 211. MEDICAL RECORD SCIENCE III** (4). Vital and public health statistics; in-depth study of hospital statistics; definitions, formulas and computations. Completion of medical care evaluation studies; outline of utilization review, PSRO and JCAH standards; hospital libraries, tumor registries and study of hospital admitting procedures. Four hours lecture and assigned lab. Prerequisite: MRT 112.
- † **MRT 212. MEDICAL RECORD SCIENCE IV** (3). The medical record as legal document; confidential communication; consents and authorizations for release of medical information. Principles and roles of supervisor, staff and management of medical record department. Ambulatory, extended care facility and problem-oriented medical records. Three hours lecture and assigned lab. Prerequisite: MRT 211.
- † **MRT 290. TOPICS IN MEDICAL RECORD TECHNOLOGY** (1-4). Medical record technology projects, workshops, and seminars dealing with current topics not covered in existing courses.

Medical Technology (MEDT)

- MEDT 301. ORIENTATION TO PROFESSION OF MEDICAL TECHNOLOGY** (2) I, III. Professional aspects of medical technology as part of health care team; ethics, responsibilities, and laboratory administration.
- MEDT 401. INTRODUCTION TO RESEARCH** (1-4) I, II, III, IV. For students interested in pursuing research related to clinical laboratory science. Prerequisite: permission of instructor.
- MEDT 452. CLINICAL BACTERIOLOGY I** (4) I, II, III, IV. Isolation and identification of clinically significant pathogenic bacteria from clinical specimens. Theory and clinical lab application. Prerequisites: BIOL 426 or equivalent and permission of instructor.
- MEDT 453. CLINICAL BACTERIOLOGY II** (4) I, II, III, IV. Continuation of MEDT 452; emphasis on application. Prerequisites: BIOL 426 and permission of instructor.
- MEDT 454. CLINICAL MYCOLOGY** (2) I, II, III, IV. Theory and laboratory exercises related to identification, etiology, epidemiology, pathogenesis and immunology of medical mycosis. Prerequisites: BIOL 426 and permission of instructor.
- MEDT 455. CLINICAL PARASITOLOGY** (2) I, II, III, IV. Theory and laboratory procedures related to morphology and life cycles of parasites of man and methods of recovery and identification. Prerequisites: BIOL 405 and permission of instructor.

MEDT 456. IMMUNOHEMATOLOGY I (4) I, II, III, IV. Human blood groups, compatibility testing and detection and identification of antibodies; management of transfusion service. Theory and clinical laboratory application. Prerequisites: BIOL 439 and permission of instructor.

MEDT 457. IMMUNOHEMATOLOGY II (2) I, II, III, IV. Continuation of MEDT 456; emphasis on clinical application. Prerequisites: BIOL 439 and permission of instructor.

MEDT 458. CLINICAL SEROLOGY (2) I, II, III, IV. Theory and clinical laboratory experience related to formation and detection of antibodies in numerous disease states. Prerequisites: BIOL 439 and permission of instructor.

MEDT 459. CLINICAL HEMATOLOGY I (4) I, II, III, IV. Theory of development of cellular elements of blood; recognition of normal and abnormal elements. Lectures on detection of blood dyscrasias, hematological procedures and clinical laboratory application. Prerequisites: BIOL 411 and permission of instructor.

MEDT 460. CLINICAL HEMATOLOGY II (4) I, II, III, IV. Continuation of MEDT 459; emphasis on clinical application. Prerequisites: BIOL 411 and permission of instructor.

MEDT 461. COAGULATION (2) I, II, III, IV. Theory of coagulation mechanism and relationship to disease states; identification of coagulation deficiencies and abnormalities. Prerequisites: BIOL 411 and permission of instructor.

MEDT 462. CLINICAL CHEMISTRY I (6) I, II, III, IV. Theory and clinical laboratory experience involving analysis of chemical constituents of body fluids in normal and disease states. Prerequisites: CHEM 307 and CHEM 201 and PHYS 216 and permission of instructor. CHEM 321 and CHEM 352, and PHYS 215 recommended.

MEDT 463. CLINICAL CHEMISTRY II (6) I, II, III, IV. Continuation of MEDT 462; emphasis on clinical application. Prerequisites: MEDT 462 and permission of instructor.

MEDT 464. ANALYSIS OF BODY FLUIDS (2) I, II, III, IV. Physiology of urinary system and related diseases. Methods of detection of chemical and cellular elements of urine, cerebral spinal fluid, synovial fluid, and seminal fluid. Prerequisites: BIOL 411 or equivalent and permission of instructor.

MEDT 465. LABORATORY MANAGEMENT AND PERSONNEL PRACTICES I (2) I, II, III, IV. Theory and discussion of supervision and management of clinical laboratory and personnel. Prerequisite: permission of instructor. Courses in PSYC and/or MGMT and CS or MIS recommended.

MEDT 466. LABORATORY MANAGEMENT AND PERSONNEL PRACTICES II (2) I, II, III, IV. Continuation of MEDT 465; problem solving and application. Prerequisite: permission of instructor.

MEDT 470. SPECIAL TOPICS (1-2). May be repeated to four hours. Examples of topics: nuclear medicine, histology procedures, cytology procedures, cytogenetics, virology procedures, toxicology, instrumentation education techniques, electrocardiogram technique. Prerequisite: permission of instructor.

Military Science (MILS)

MILS 101. INTRODUCTION TO ARMY ROTC (2) I. First year basic. History, organization, programs, benefits, objectives of Army ROTC; role of U.S. Army in national defense. No military obligation or prerequisites.

MILS 102. PRACTICAL SKILLS (2) I. Students may select any MILS 102 class based on personal preference of interest. No military obligation or prerequisites.

A102 Rifle Marksmanship
B102 Rappelling and Survival Operations
C102 Physical Conditioning
D102 Correspondence Course

MILS 103. MAP READING (2) III. Terrain evaluation, military grid reference systems, integrated use of map and compass. No military obligation or prerequisites.

MILS 201. LEADERSHIP/MANAGEMENT (2) I. Second year basic. Principles of leadership; psychological approach to leadership; application of leadership principles to commonplace problems. No military obligation or prerequisites.

MILS 202. PRACTICAL SKILLS (2) I. Students may select any MILS 202 class based on personal preference or interest. No military obligation or prerequisites.

A202 Rifle Marksmanship
B202 Rappelling and Survival Operations
C202 Physical Conditioning
D202 Correspondence Course

MILS 203. TACTICAL OPERATIONS I (2) III. Small unit tactics; organization of basic military team; duties and responsibilities of military leaders with applied leadership and management problems associated with small unit leadership. No military obligation or prerequisites.

MILS 301. METHODS OF MILITARY INSTRUCTION (3) I. First-year advanced. Principles, methods and techniques fundamental to military instruction; role of branches of Army; history, development, mission, and organization. Progressive leadership development; applicatory work; duties and responsibilities of junior leaders; drill and ceremonies. Prerequisite: MILS 203; or direct enrollment in two-year advanced course program by placement; or credit for previous military training (active duty or military school); or completion of the two-year program basic summer camp.

MILS 302. MILITARY LAW (3) II. Basic concepts and fundamentals of Army military justice. Race relations and drug abuse; branches of Army; progressive training in leadership; drill and ceremonies; student participation in role of junior leader.

MILS 303. TACTICAL OPERATIONS II (3) III. Review of principles of small unit tactics; development and understanding of application (platoon). Branches of Army. Progressive training in leadership; orientation for ROTC advanced summer camp.

MILS 401. MILITARY HISTORY (3) I. Military history with student having option of two courses offered by Department of History: HIST 301, American Military History, or HIST 303, Topics of World War II. Application of leadership principles, responsibilities of leader, planning and execution of practical exercises with fourth-year students exercising control of cadet battalion.

MILS 402. MANAGEMENT SIMULATION PROGRAM (3) II. Principles, methods and techniques of decision making and management with practical experience and application. Application of leadership principles through planning and execution of practical exercises and instruction with fourth-year students exercising control of cadet battalion.

MILS 403. UNIT ADMINISTRATION (3) III. Concepts and fundamentals of Army administration; fundamentals of Army supply system and material readiness system; staff organization and staff officer responsibilities; orientation of service life for future officer; application of leadership principles through planning and execution of practical exercises with fourth-year students exercising control of cadet battalion. Prerequisite: MILS 402.

MILS 404. STUDIES IN MILITARY SCIENCE (1-4) On demand. Study in depth of selected areas. Offered to individual student on lecture basis, in seminar, or independent study depending on student's needs and nature of material. May be repeated to eight hours. Prerequisite: consent of instructor.

Music Composition and History (MUCH)

MUCH 100. SMALL ENSEMBLES (1) I, II, III. Collegium Musicum of College of Musical Arts offered under supervision of composition/history department. For freshmen or sophomores. May be repeated. Following small ensembles offered on demand:
MUCH 100a. MADRIGAL SINGERS.
MUCH 100b. RENAISSANCE ENSEMBLE.
MUCH 100c. BAROQUE SINGERS.
MUCH 100d. BAROQUE ENSEMBLE.
MUCH 100e. GAMELAN.
MUCH 100f. NEW MUSIC ENSEMBLE.

MUCH 101. MUSIC IN WESTERN CIVILIZATION I (3) I. Styles and forms of music from Medieval, Renaissance, and Baroque periods. Relation of music to other arts where appropriate. Open only to freshman or sophomore nonmusic major.

MUCH 102. MUSIC IN WESTERN CIVILIZATION II (3) II. Styles and forms of music from Classical and Romantic periods. Relation of music to other arts where appropriate. Open only to freshman or sophomore nonmusic major.

MUCH 103. MUSIC IN WESTERN CIVILIZATION III (3) III. Styles and forms of music in 20th century; traditional, aleatoric, electronic, theatre music. Open only to freshman or sophomore nonmusic major.

MUCH 110. ELEMENTS OF MUSIC I (4) I, IV. Musical literacy in scales, intervals and triads in two clefs, as demonstrated by singing, hearing, reading, and writing. Open to nonmajors, minors, and music majors with consent of instructor.

MUCH 111. ELEMENTS OF MUSIC II (4) I, II. MUCH 110 continued.

***MUCH 125. INTRODUCTION TO NON-WESTERN MUSIC (4) II, III.** Musical systems of major non-Western art musics: Africa, Near East, Pacific, and Asia. Theoretical, analytical, and cultural concepts related to music. Prerequisite: MUCH 111.

***MUCH 130. FOLK MUSIC IN AMERICA (4) I, II, III.** Folk and traditional music of various cultural groups. Theoretical, analytical, cultural, and performance concepts related to music. Prerequisite: MUCH 111.

***MUCH 131. MEDIEVAL MUSIC (4) III.** Various styles of music during Medieval period. Theoretical, analytical, cultural, and performance concepts related to music literature. Prerequisite: MUCH 111.

***MUCH 132. BAROQUE MUSIC (4) I, II, III.** Music in Baroque period. Theoretical, analytical, cultural, and performance concepts related to various styles of music literature. Prerequisite: MUCH 111.

***MUCH 134. POPULAR MUSIC IN AMERICA (4) I, II, III.** Various styles of popular music in America; post-World War II trends and interactions; cultural, theoretical, analytical, and performance concepts. Prerequisite: MUCH 111.

***MUCH 135. AFRICAN MUSIC (4) III.** Music of various cultural groups of sub-Saharan Africa. Theoretical, analytical, cultural, and performance concepts related to music. Prerequisite: MUCH 111.

*For all music majors, completion of two of following with passing grades plus completion of MUCH 143 with grade of "C" or better are prerequisite to enrollment in 200-level MUCH classes: MUCH 125, MUCH 130, MUCH 131, MUCH 132, MUCH 134, MUCH 135.

MUCH 142. AURAL SKILLS II (2) II, III. Basic, comprehensive course in ear training; rhythmic, melodic, harmonic dictation; sight-singing. Completion of MUCH 243 required of all music majors. Prerequisite: MUCH 111 or equivalent.

MUCH 143. AURAL SKILLS III (2) I, III. MUCH 142 continued. Prerequisite: MUCH 142.

MUCH 221. MASTERPIECES OF MUSIC I (3) I. Music of most important composers of Baroque period; directed listening to selected works. Open only to nonmusic majors.

MUCH 222. MASTERPIECES OF MUSIC II (3) II. Music of most important composers of Classical period; directed listening to selected works. Open only to nonmusic majors.

MUCH 223. MASTERPIECES OF MUSIC III (3) III. Music of most important composers of Romantic period; directed listening to selected works. Open only to nonmusic majors.

MUCH 231. RENAISSANCE MUSIC (4) I, II, III. Music in various forms and styles during Renaissance. Theoretical, analytical, cultural, and performance concepts related to music literature. Prerequisites: MUCH 143 with grade of "C" or better plus two of following: MUCH 125, MUCH 111, MUCH 131, MUCH 132, MUCH 134, and/or MUCH 135.

MUCH 232. CLASSICAL MUSIC (4) I, II, III. Music in Classical period. Theoretical, analytical, cultural, and performance concepts related to music literature in various styles of dictation; slg period. Prerequisites: Same as those for MUCH 231, but must include MUCH 132.

MUCH 233. AVANT-GARDE MUSIC (4) II, III. Various styles of music from mid-20th century to present. Theoretical, analytical, cultural, and performance concepts related. Prerequisites: same as those for MUCH 231.

MUCH 235. INDONESIAN MUSIC (4) II. Music of principal cultural groups of Indonesia. Theoretical, analytical, cultural, and performance concepts. Prerequisites: same as those for MUCH 231.

MUCH 241. AURAL SKILLS IV (2) I, III. MUCH 143 continued. Prerequisite: MUCH 143. (Music majors must have grade of "C" or better in MUCH 143.)

MUCH 242. AURAL SKILLS V (2) II, III. MUCH 241 continued. Prerequisite: MUCH 241.

MUCH 243. AURAL SKILLS VI (2) I, III. MUCH 242 continued. Prerequisite: MUCH 242.

MUCH 300. SMALL ENSEMBLES (1) I, II, III. Collegium Musicum of College of Musical Arts offered under supervision of composition/history department. For juniors or seniors. May be repeated. Following types of small ensembles offered on demand:

MUCH 300a. MADRIGAL SINGERS.
MUCH 300b. RENAISSANCE ENSEMBLE.
MUCH 300c. BAROQUE SINGERS.
MUCH 300d. BAROQUE ENSEMBLE.
MUCH 300e. GAMELAN.
MUCH 300f. NEW MUSIC ENSEMBLE.

MUCH 301. CHORAL LITERATURE (3). On demand. Performance and analysis of styles from Renaissance to contemporary period.

MUCH 304. ANALYSIS (3) I, II. Small and large forms of composition from various periods. Musical form from chant to chance. Prerequisite: MUCH 332 with grade of "C" or better.

MUCH 308. KEYBOARD HARMONY I (2) I alternate years. Use of keyboard skills relating to score reading, transposition, extemporization, and accompanying.

MUCH 309. KEYBOARD HARMONY II (2) II alternate years. Continuation of keyboard skills developed in MUCH 308; practical aspects of accompanying. Prerequisite: MUCH 308.

MUCH 310. KEYBOARD HARMONY III (2) III alternate years. MUCH 309 continued. Prerequisite: MUCH 309.

MUCH 315. ORCHESTRATION (3) I, III. Score analysis, arranging and writing for various families of orchestra—woodwinds, brass, percussion, strings; scoring for full symphony orchestra. Prerequisite: MUCH 332 with grade of "C" or better; or MUCH 132, MUCH 135, MUCH 232, and MUCH 332.

MUCH 316. COMPOSITION (3) I, II, III. Original composition in vocal and instrumental forms. May be repeated to 18 hours. Prerequisite: MUCH 332 with grade of "C" or better; or MUCH 132, MUCH 135, MUCH 232, and MUCH 332; or consent of instructor.

MUCH 318. SYMPHONIC LITERATURE (3). On demand. Listening to and analysis of works tracing development of symphony and symphonic poem to modern period.

MUCH 320. BAND ARRANGING (3) II, III. Scoring for band instruments, from small ensembles to concert band and marching band. Prerequisite: MUCH 332 with grade of "C" or better; or MUCH 132, MUCH 135, MUCH 232, and MUCH 332.

MUCH 332. ROMANTIC MUSIC (4) I, II, III. Music in Romantic period. Theoretical, analytical, cultural, and performance concepts related to music literature in various styles. Prerequisites: MUCH 232 and MUCH 243.

MUCH 333. 20th-CENTURY MUSIC (4) II, III. Music of various styles, from reactions to Romanticism through present practices. Theoretical, analytical, cultural, and performance concepts. Prerequisites: MUCH 243 and MUCH 332.

MUCH 334. JAZZ (4) II, III. Music of various styles of jazz from around 1900 to present. Theoretical, analytical, cultural, and performance concepts. Prerequisite: MUCH 243.

MUCH 335. JAPANESE MUSIC (4) I. Music of Japanese temple, court, theater, and concert. Theoretical, analytical, cultural, and performance concepts. Prerequisite: MUCH 243.

MUCH 341. AURAL SKILLS VII (2) I. MUCH 243 continued. Prerequisite: MUCH 243. For honor students, music composition/theory, and students wishing to become tutors for aural skills II-VI.

MUCH 401. HISTORY AND LITERATURE OF JAZZ (3). On demand. Jazz from African influences through present developments; personalities involved in stylistic change.

MUCH 403. COUNTERPOINT I (2) I alternate years. 16th-century counterpoint. Prerequisites: MUCH 132, MUCH 135, MUCH 231, and MUCH 232.

MUCH 404. COUNTERPOINT II (2) II alternate years. 18th-century counterpoint; tonal counterpoint in three and four voices; canon, invention, fugue, chorale-prelude. Prerequisites: MUCH 132, MUCH 135, MUCH 232, and MUCH 332.

MUCH 405. COUNTERPOINT III (2) III alternate years. 20th-century counterpoint. Analysis and writing in nontonal 12-tone contrapuntal techniques. Prerequisites: MUCH 132, MUCH 232, MUCH 332, and MUCH 333.

MUCH 406. PROBLEMS IN MUSIC HISTORY (4) I, II, III. Research through topics and problems in music history. Prerequisite: consent of instructor. May be repeated to 12 hours.

MUCH 407. PERFORMANCE PRACTICE (3). On demand. Performance practice in music; improvisation, ornamentation, accompaniment, instrumentation, rhythm, and tempo. Prerequisites: MUCH 218 and MUCH 219 with grade of "C" or better; or MUCH 132, MUCH 135, MUCH 231, and MUCH 232.

MUCH 408. CHAMBER MUSIC LITERATURE (3). On demand. Selected major chamber music works of various periods. Reading on all forms and media. Prerequisite: MUCH 232 and MUCH 332 with grade of "C" or better; or MUCH 132, MUCH 231, MUCH 232, and MUCH 332.

MUCH 410. CONTEMPORARY MUSIC PRO-SEMINAR (3). On demand. Musical styles and techniques of 20th century; compositional and analytical approach, considering various influences of past. May be repeated to 18 hours. Open automatically to composition majors, to others by consent of instructor. Prerequisite: MUCH 232 with grade of "C" or better.

MUCH 412. OPERA LITERATURE (3). On demand. Styles, interpretation, traditional performances of various schools. Prerequisites: MUCH 232, and MUCH 332 with grade of "C" or better; or MUCH 132, MUCH 232, MUCH 332, plus one non-Western module.

MUCH 417. MUSIC IN AMERICA (3). On demand. Present art, popular, electronic, jazz, folk, and ethnic music through individual research; historical survey from earliest settlements to present. Prerequisite: MUCH 101 or MUCH 102 or MUCH 103.

MUCH 420. PROBLEMS AND TECHNIQUES OF ETHNOMUSICOLOGY (3). On demand. Topics and techniques in ethnomusicology. Open to students interested in all music as aspects of culture.

MUCH 424. ELECTRONIC MUSIC I (3) I alternate years. Basic language and literature of electronic music. One noncredit hour a week in listening laboratory.

MUCH 425. ELECTRONIC MUSIC II (3) II alternate years. Problems of live electronic music. Various commercial equipment reviewed. Prerequisite: MUCH 424.

MUCH 426. ELECTRONIC MUSIC III (3) III alternate years. Students realize tapes in electronic music studio under faculty supervision. Prerequisite: MUCH 425.

MUCH 427. COMPUTER MUSIC I (3) I alternate years. Computer terminology, concepts, and programming techniques as related to musical applications.

MUCH 428. COMPUTER MUSIC II (3) II alternate years. Automated techniques for musical analysis and composition. Music program library. Prerequisite: MUCH 427.

MUCH 429. COMPUTER MUSIC III (3) III alternate years. Sound synthesis and automated music printing. MUSIC4 digital-syntheses program and hybrid techniques. Prerequisite: MUCH 428.

MUCH 431. AESTHETICS OF BLACK MUSIC (4) I. West African and Afro-American concepts of music; modifying effects America has had from slavery to present.

MUCH 432. BLACK CHURCH MUSIC (4) II. Black music as functional and effective religious tool; analysis of techniques by which this is accomplished.

MUCH 433. BLUES-JAZZ: BLACK ROOTS (4) III. Development of blues and jazz as art forms; stylistic periods and outstanding figures.

MUCH 490. READINGS AND RESEARCH (2-5) I, II, III. Directed independent reading and research in history, philosophy, theory, or aesthetics of music. Prerequisites: 24 hours of music theory and history, and consent of instructor.

***Music Education (MUED)**

MUED 120. PERCUSSION CLASS (1) I, II, III.

MUED 125. PERCUSSION CLASS (1) I, II, III. Prerequisite: MUED 120.

MUED 130. TRUMPET CLASS (1) I, II, III.

MUED 135. HORN CLASS (1) I, II, III.

MUED 136. TROMBONE CLASS (1) I, II, III.

MUED 137. EUPHONIUM-TUBA CLASS (1) I, II, III.

MUED 140. CLARINET CLASS (1) I, II, III.

MUED 143. SAXOPHONE CLASS (1) I, II, III.

MUED 145. FLUTE CLASS (1) I, II, III.

MUED 146. OBOE CLASS (1) I, II, III.

MUED 147. BASSOON CLASS (1) I, II, III.

MUED 150. CLASS PIANO (1) I, II, III. Functional keyboard skills for beginners and those with minimal keyboard experience. Placement into MUED 150 and MUED 151 and MUED 152 determined on basis of audition. Only for credit to music majors and minors. Grade of "C" or better required for admittance into MUED 151. Fee \$15.

MUED 151. CLASS PIANO (1) I, II, III. Continuation of MUED 150. Grade of "C" or better required for admittance into MUED 152. Fee \$15.

MUED 152. CLASS PIANO (1) I, II, III. Continuation of MUED 151. Grade of "C" or better required for admittance into sophomore-level piano classes. Fee \$15.

MUED 153. CLASS PIANO (1) On demand. Remedial course for students who need additional study at the freshman level beyond MUED 152. Fee \$15.

MUED 154. CLASS PIANO (1) I, II, III. Functional skills course for students with advanced keyboard facility. Covers content of MUED 150 and MUED 151 and MUED 152 in one quarter. Grade of "C" or better required for admittance into sophomore level piano classes. Fee \$15.

MUED 155. CLASS PIANO (1) III on demand. For piano emphasis students only; advanced functional skills course. Fee \$15.

MUED 156. BEGINNING PIANO FOR NON-MUSIC MAJOR I (2) I, II, III. Beginning work in music reading, pop/jazz chords, keyboard technique, improvisation, elementary piano literature. Not open to music majors or minors.

MUED 157. BEGINNING PIANO FOR NON-MUSIC MAJOR II (2) II, III. Continuation of MUED 156. Not open to music majors or minors. Prerequisite: MUED 156.

MUED 170. VOICE CLASS (1) I, II, III. Beginning study of voice production, breathing, posture, and diction through vocalises and songs in English.

MUED 177. VOICE CLASS (1) I, II, III. Continuation of MUED 170. Prerequisite: MUED 170.

MUED 178. VOICE CLASS (1) I, II, III. Continuation of MUED 177. Prerequisite: MUED 177.

MUED 180. VIOLIN CLASS (1) I, II, III.

MUED 185. VIOLA CLASS (1) I, II, III.

MUED 186. CELLO CLASS (1) I, II, III.

MUED 187. STRING BASS CLASS (1) I, II, III.

MUED 190. TROUBADOUR HARP CLASS (1) I.

MUED 195. GUITAR CLASS (1) I, II, III.

MUED 240. INTRODUCTORY MUSIC FIELD EXPERIENCE (4) I, II, III. Introduction to profession of music education and to a wide variety of music teaching situations at all levels. Prerequisite: sophomore standing in music. C/F hrs: 40. Required of all sophomores.

MUED 250. CLASS PIANO: INSTRUMENTAL HARMONIZATION AND SCORE READING I (1) I, II. For intermediate level work in melody harmonization, pop/jazz chords, and sightreading of piano and instrumental scores. Prerequisite: Piano Proficiency I. Grade of "C" or better required for admittance into junior level accompanying course.

MUED 253. CLASS PIANO: CHORAL HARMONIZATION AND SCORE READING I (1) I, II. For intermediate level work in melody harmonization, pop/jazz chords, and sightreading of choral scores. Prerequisite: Piano Proficiency I. Grade of "C" or better required for admittance into MUED 254.

MUED 254. CLASS PIANO: CHORAL HARMONIZATION AND SCORE READING II (1) II, III. Continuation of MUED 253. Prerequisite: MUED 253. Grade of "C" or better required for admittance into junior level accompanying course.

MUED 255. MUSIC IN ELEMENTARY SCHOOL (4) I, II, III. Objectives, materials, procedures involved in teaching of music in first six grades.

MUED 256. CLASS PIANO: CHORAL HARMONIZATION AND SCORE READING III (1) III. Only for students with advanced keyboard facility; covers content of MUED 253 and MUED 254 in one quarter. Prerequisite: Piano Proficiency I. Grade of "C" or better required for admittance into accompanying junior level course.

MUED 257. CLASS PIANO: CLASSROOM HARMONIZATION, TRANSPOSITION, AND IMPROVISATION I (1) I. For intermediate level work in melody harmonization, pop/jazz chords, transposition, and improvisation. Prerequisite: Piano Proficiency I. Grade of "C" or better required for admittance into MUED 258.

MUED 258. CLASS PIANO: CLASSROOM HARMONIZATION, TRANSPOSITION, AND IMPROVISATION II (1) II. Continuation of MUED 257. Prerequisite: MUED 257. Grade of "C" or better required for admittance into junior level accompanying course.

MUED 259. CLASS PIANO: CLASSROOM HARMONIZATION, TRANSPOSITION, AND IMPROVISATION III (1) III. Only for students with advanced keyboard facility; covers content of MUED 257 and MUED 258 in one quarter. Prerequisite: Piano Proficiency I. Grade of "C" or better required for admittance into junior level accompanying course.

MUED 331. STUDENT TEACHING (15) I, II, III. Supervised teaching in area schools, supplemented by conferences and seminars. Required of all music education majors. Meets student teaching requirement for special teacher's certification in music. Prerequisites and guidelines for student teaching stated under music education. Graded S/U. Fee: \$36.

MUED 332. STUDENT TEACHING (3-11) I, II, III. Additional student teaching experience taken upon advice of music education faculty. Graded S/U. Special fee assessed.

MUED 350. CLASS PIANO: ACCOMPANYING AS TEACHING TOOL (1) I, II, III. For music education students who are not keyboard emphasis majors; introductory work in accompanying. Prerequisite: Piano Proficiency II, or consent of instructor. Grade of "C" or better required of music education majors for graduation.

MUED 351. GENERAL MUSIC (2) I, II, III. Singing, moving to music, playing piano and classroom instruments, gaining knowledge of elements, symbols, and elementary theory of music. Not open for credit to music major or minor.

MUED 352. GENERAL MUSIC (2) I, II, III. Listening to music intelligently, music literature appropriate for children, understanding elements of music in various forms and styles of composition. Not open for credit to music major or minor. Prerequisite: MUED 351.

MUED 353. GENERAL MUSIC (2) I, II, III. Role of music in total school curriculum as an art and musical needs of children; developing skills in teaching procedures and related aspects of teaching. Not open for credit to music major or minor. Prerequisites: MUED 351 and MUED 352.

MUED 354. GENERAL MUSIC (4) I, II, III. Accelerated course covering material studied in MUED 351 and MUED 352 and MUED 353. High level of attainment expected; open to student with wide background in music. Not open for credit to music major or minor nor to student with credit for MUED 351 or MUED 352 or MUED 353. Prerequisite: consent of instructor prior to registration.

MUED 355. METHODS IN MUSIC IN JUNIOR HIGH SCHOOL (3) I, II, III. Subject matter and materials for music in junior high school.

MUED 356. METHODS IN MUSIC IN SENIOR HIGH SCHOOL (2). On demand. Subject matter and materials for music in senior high school.

MUED 359. EXAMINATION AND PERFORMANCE OF CHORAL REPERTOIRE (3) I, II. Suitable for use in secondary schools; related performance problems and their solutions. Prerequisite: MUSP 307.

MUED 360. MUSICAL THEATRE PRODUCTION SURVEY (3) III. Overview of considerations necessary in production of musical theatre at public school level.

MUED 402. BEGINNING WIND AND PERCUSSION INSTRUMENT REPAIR (2) III. Basic practices and techniques.

MUED 450. ADULT GROUP PIANO TEACHING (3) III alternate years. Materials, supervised teaching, and program development appropriate for adult level class. Open to students with strong piano background. Consent of instructor required.

MUED 451. ADVANCED METHODS FOR CLASSROOM MUSIC (4) I. Examination of methods, instructional hardware, organizational patterns, and curricular models. Prerequisites: MUED 255 and MUED 355.

MUED 455. MUSIC AND ALLIED ARTS (4) III. Examination of recent efforts to integrate music and arts; problems and merits of such studies; developing valid procedures for courses in this area. Prerequisite: ART 101.

MUED 456. CHORAL TECHNIQUES AND ORGANIZATION (3) I. Advanced course for vocal-choral major; preparation for directing choral program in high school, church, community.

MUED 457. INSTRUMENTAL ORGANIZATION AND ADMINISTRATION (4) II, III. Organization and administration of elementary and secondary instrumental (band and orchestra) music programs.

MUED 458. MARCHING BAND TECHNIQUES (3) I. Techniques in planning, charting, and rehearsing marching band shows; administering public school marching bands. Prerequisite: junior standing or higher.

Music, General (MUS)

MUS 099. RECITAL ATTENDANCE (0) I, II, III. Required of all music majors for nine quarters. Successful completion of course requires attendance at minimum of 10 on-campus musical performances. Graded S/U.

Music Performance Studies (MUSP)

MUSP 100. SMALL ENSEMBLES (1) I, II, III. Formed under supervision of College of Musical Arts and offered on demand. For freshmen or sophomores. May be repeated. All students majoring in performance or with instrumental or vocal emphasis in music education will participate in Small Ensembles when assigned. Assignments made on basis of needs of student's program. Specific minimum number of credits is required in each program, and this number will apply toward graduation. Work done above minimum may be counted as music electives. Following small chamber ensembles offered:

MUSP 100a. MUSIC THEATER PRODUCTIONS
 MUSP 100b. FOLK ENSEMBLE
 MUSP 100c. PERCUSSION
 MUSP 100d. BRASS CHOIR I
 MUSP 100e. EUPHONIUM-TUBA
 MUSP 100f. BRASS
 MUSP 100h. STRING
 MUSP 100i. TROMBONE CHOIR
 MUSP 100j. JAZZ LAB II
 MUSP 100k. WOODWIND
 MUSP 100l. HORN ENSEMBLE
 MUSP 100m. JAZZ LAB I
 MUSP 100n. BRASS CHOIR II
 MUSP 100o. HARP
 MUSP 100p. PIANO ENSEMBLE
 MUSP 100q. PIANO ACCOMPANIMENT
 MUSP 100r. MIXED CHAMBER
 MUSP 100s. COLLEGIATE CHAMBER SINGERS
 MUSP 100t. SAXOPHONE ENSEMBLE

MUSP 160. SIGHT READING I (1). On demand. Development of visual comprehension of intervallic patterns and comprehension of basic rhythmic patterns.

MUSP 195, 221, 231-235, 241-245, 261-263, 271-272, 281-285. APPLIED INSTRUCTION. One credit awarded for each half hour of applied instruction. Performance majors entitled to four credits for one clock hour lesson. \$30 fee for each half hour of applied instruction assessed each quarter. (Maximum of \$60 for any one applied course.) Student enrolled for applied music has access to practice rooms and equipment with schedules and regulations determined by College of Musical Arts.

MUSP 195. PEDAL HARP CLASS (1) I, II, III. Prerequisite: one quarter of Troubadour Harp (MUED 190) or permission of instructor. Fee: \$15.

MUSP 221. APPLIED PERCUSSION (1, 2, 3, 4) I, II, III, IV.

MUSP 231. APPLIED TRUMPET (1, 2, 3, 4) I, II, III, IV.

MUSP 232. APPLIED FRENCH HORN (1, 2, 3, 4) I, II, III, IV.

MUSP 233. APPLIED TROMBONE (1, 2, 3, 4) I, II, III, IV.

MUSP 234. APPLIED EUPHONIUM (1, 2, 3, 4) I, II, III, IV.

MUSP 235. APPLIED TUBA (1, 2, 3, 4) I, II, III, IV.

MUSP 241. APPLIED FLUTE (1, 2, 3, 4) I, II, III, IV.

MUSP 242. APPLIED OBOE (1, 2, 3, 4) I, II, III, IV.

MUSP 243. APPLIED CLARINET (1, 2, 3, 4) I, II, III, IV.

MUSP 244. APPLIED SAXOPHONE (1, 2, 3, 4) I, II, III, IV.

MUSP 245. APPLIED BASSOON (1, 2, 3, 4) I, II, III, IV.

MUSP 261. APPLIED PIANO (1, 2, 3, 4) I, II, III, IV.

MUSP 262. APPLIED HARPSICHORD (1, 2, 3, 4) I, II, III.

MUSP 263. APPLIED ORGAN (1, 2, 3, 4) I, II, III, IV.

MUSP 271. PARA-VOICE (2) I, II, III. Fee: \$30.

MUSP 272. APPLIED VOICE (1, 2, 3, 4) I, II, III, IV.

MUSP 281. APPLIED VIOLIN (1, 2, 3, 4) I, II, III, IV.

MUSP 282. APPLIED VIOLA (1, 2, 3, 4) I, II, III, IV.

MUSP 283. APPLIED CELLO (1, 2, 3, 4) I, II, III, IV.

MUSP 284. APPLIED DOUBLE BASS (1, 2, 3, 4) I, II, III, IV.

MUSP 285. APPLIED HARP (1, 2, 3, 4) I, II, III.

MUSP 209. INTRODUCTION TO HARPSICHORD PLAYING (1) I, II. Harpsichord touch, fingering, articulation and phrasing, tempo and rhythm, embellishment, and accompanying according to historical principles. Prerequisite: piano proficiency examination or permission of instructor.

MUSP 210. PIANO REPERTOIRE (1-3) I. Literature from early keyboard music through Baroque. Prerequisite: consent of instructor.

MUSP 211. PIANO REPERTOIRE (1-3) II. Piano literature from Classical into Romantic era. Prerequisite: consent of instructor.

MUSP 212. PIANO REPERTOIRE (1-3) III. Piano literature from Late Romantic to present. Prerequisite: consent of instructor.

MUSP 214. SINGER'S DICTION-ITALIAN (2) I.

International phonetic alphabet used as basis for phonetic analysis of Italian text in applying principles of lyric Italian diction as concerns the singer; simple grammatic construction; use of dictionary.

MUSP 215. ORGAN REPERTOIRE (2) I. Offered alternate years. Organ literature before 1750 excluding music of J. S. Bach.

MUSP 216. ORGAN REPERTOIRE (2) II alternate years. Organ music of J. S. Bach.

MUSP 217. ORGAN REPERTOIRE (2) III alternate years. Organ literature from 1750 to present.

MUSP 238-239, 277-279, 288-289. LARGE ENSEMBLES (1-2) I, II, III. Open to any student of University possessing necessary musical ability. Any student taking individual voice lessons may register for MUSP 277 or MUSP 278 or MUSP 279 only with consent of his/her voice instructor and conductor of ensemble. All credit earned in large ensembles placed on student's permanent academic record.

MUSP 238. SYMPHONIC OR CONCERT BAND* (freshman-sophomore) (1-2).

MUSP 239. MARCHING BAND (freshman-sophomore) (2).*

MUSP 277. A CAPELLA CHOIR (freshman-sophomore) (1).*

MUSP 278. COLLEGIATE CHORALE (freshman-sophomore) (2).*

MUSP 279. UNIVERSITY CHORUS (freshman-sophomore) (1).*

MUSP 288. CHAMBER ORCHESTRA (freshman-sophomore) (1).*

MUSP 289. SYMPHONY ORCHESTRA (freshman-sophomore) (2).*

MUSP 264. ACCOMPANYING TECHNIQUES I (2). On demand. Problems involving musical comprehension of solo part together with accompaniment; general introduction to vocal and instrumental accompaniment literature. Prerequisite: MUSP 160 or consent of instructor.

MUSP 265. PIANO FOUR-HAND CLASS (1). On demand. Appropriate four-hand keyboard literature; emphasis on 19th century. Prerequisite: MUSP 160 or consent of instructor.

MUSP 275. INTRODUCTION TO OPERA WORKSHOP (2) I. Basic terminology and practices of opera theatre.

MUSP 300. SMALL ENSEMBLES (1) I, II, III. Formed under supervision of College of Musical Arts and offered on demand. For juniors or seniors. May be repeated. All students majoring in performance or with instrumental or vocal emphasis in music education will participate in Small Ensembles when assigned. Assignments made on basis of needs of student's program. Specific minimum number of credits is required in each program, and this number will apply toward graduation. Work done above minimum may be counted as music electives. Following small chamber ensembles offered:

MUSP 300a. MUSIC THEATER PRODUCTIONS

MUSP 300b. FOLK ENSEMBLE

MUSP 300c. PERCUSSION

MUSP 300d. BRASS CHOIR I

MUSP 300e. EUPHONIUM-TUBA

MUSP 300f. BRASS

MUSP 300h. STRING

MUSP 300i. TROMBONE CHOIR

MUSP 300j. JAZZ LAB II

MUSP 300k. WOODWIND

MUSP 300l. HORN ENSEMBLE

MUSP 300m. JAZZ LAB I

*Audition or faculty assignment required.

MUSP 300n. BRASS CHOIR II
 MUSP 300o. HARP
 MUSP 300p. PIANO ENSEMBLE
 MUSP 300q. PIANO ACCOMPANIMENT
 MUSP 300r. MIXED CHAMBER
 MUSP 300s. COLLEGIATE CHAMBER SINGERS
 MUSP 300t. SAXOPHONE ENSEMBLE

MUSP 305. CONDUCTING I (2) I. Fundamental beat and cuing techniques.

MUSP 306. CONDUCTING II (2) II. Continuation of baton techniques. Prerequisite: MUSP 305.

MUSP 307. CONDUCTING III (2) III. Advanced study and analysis of baton technique and score reading; concentration option of either instrumental or choral conducting. Prerequisite: MUSP 306.

MUSP 311. VOCAL REPERTOIRE (2) I. Late 19th century and contemporary British and American song literature; repertoire for high school vocal solo contest.

MUSP 312. VOCAL REPERTOIRE (2) II alternate years. 19th and 20th century German art song. Recordings and individual performances and reports on repertoire.

MUSP 313. VOCAL REPERTOIRE (2) III alternate years. 19th and 20th century French and Spanish art songs. Recordings and individual performances with reports on repertoire.

MUSP 360. SIGHT READING II (1). On demand. Rapid comprehension of complex intervallic and rhythmic patterns; coordinates problems involving ensemble precision. Prerequisites: MUSP 160 or equivalent skill level.

MUSP 361. STYLE AND INTERPRETATION (1) I. Supervised preparation and analysis of selected works of early keyboard music through Baroque; emphasis on style and interpretation. Prerequisite: MUSP 212.

MUSP 362. STYLE AND INTERPRETATION (1) II. Supervised preparation and analysis of selected keyboard works from Classical to Romantic period; emphasis on style and interpretation. Prerequisite: MUSP 212.

MUSP 363. STYLE AND INTERPRETATION (1) III. Supervised preparation and analysis of selected keyboard works from Romantic period to present; emphasis on style and interpretation. Prerequisite: MUSP 212.

MUSP 364. ACCOMPANYING TECHNIQUES II (2). On demand. Continuation of previous course work; advanced problems involving visual comprehension and aural prehension of solo part together with accompaniment; problems of temporal displacement of scansion and physical execution. Prerequisite: MUSP 264 or consent of instructor.

MUSP 366. SEMINAR IN PIANO PEDAGOGY (3) I alternate years. Modern pedagogical theory; current physiological and psychological studies in field.

MUSP 367. PIANO PEDAGOGY II (3) II. Methods and materials for private teaching situation. Prerequisite: MUSP 366 or consent of instructor.

MUSP 368. PIANO PEDAGOGY III (3) III. Methods and materials for teaching classes of children and adults.

MUSP 378. OPERA WORKSHOP (2) I, II, III. Development of stage techniques for more advanced students in productions of scenes and complete operas. Total of 12 credit hours possible. Vocal performance majors required to take six hours. Prerequisite: MUSP 275 or permission of instructor.

MUSP 396. SERVICE PLAYING (2) I alternate years. Hymn playing, transposition, modulation, improvisation, and accompanying at organ. Prerequisite: MUCH 206 or consent of instructor.

MUSP 397. SERVICE PLAYING (2) II. MUSP 396 continued. Prerequisite: MUSP 396 or consent of instructor.

MUSP 398. SERVICE PLAYING (2) III. MUSP 397 continued. Prerequisite: MUSP 397 or consent of instructor.

MUSP 410. HARPSICHORD REPERTOIRE (3) I. Keyboard literature from Middle Ages and Renaissance based on original source material and contemporary editions; emphasis on performance.

MUSP 411. HARPSICHORD REPERTOIRE (3) II. Solo harpsichord literature of 17th century; emphasis on performance.

MUSP 412. HARPSICHORD REPERTOIRE (3) III. Solo harpsichord compositions of Bach, Scarlatti, and Couperin; emphasis on performance.

MUSP 415. ORGAN CONSTRUCTION (3) III. Chronological history of design and construction of organ.

MUSP 416. CHURCH MUSIC (3) II. On demand. Music of major Western religions; plainsong, hymnology, liturgies. Prerequisites: MUCH 132 and MUCH 232.

MUSP 421, 431-435, 441-445, 461-463, 471-472, 481-485. APPLIED INSTRUCTION. One credit awarded for each half hour of applied instruction. Performance majors entitled to four credits for one clock hour lesson. \$30 fee for each half hour of applied instruction assessed each quarter. (Maximum of \$60 for any one applied course.) Student enrolled for applied music has access to practice rooms and equipment with schedules and regulations determined by College of Musical Arts.

MUSP 421. APPLIED PERCUSSION (1, 2, 3, 4) I, II, III, IV.

MUSP 431. APPLIED TRUMPET (1, 2, 3, 4) I, II, III, IV.

MUSP 432. APPLIED FRENCH HORN (1, 2, 3, 4) I, II, III, IV.

MUSP 433. APPLIED TROMBONE (1, 2, 3, 4) I, II, III, IV.

MUSP 434. APPLIED EUPHONIUM (1, 2, 3, 4) I, II, III, IV.

MUSP 435. APPLIED TUBA (1, 2, 3, 4) I, II, III, IV.

MUSP 441. APPLIED FLUTE (1, 2, 3, 4) I, II, III, IV.

MUSP 442. APPLIED OBOE (1, 2, 3, 4) I, II, III, IV.

MUSP 443. APPLIED CLARINET (1, 2, 3, 4) I, II, III, IV.

MUSP 444. APPLIED SAXOPHONE (1, 2, 3, 4) I, II, III, IV.

MUSP 445. APPLIED BASSOON (1, 2, 3, 4) I, II, III, IV.

MUSP 461. APPLIED PIANO (1, 2, 3, 4) I, II, III, IV.

MUSP 462. APPLIED HARPSICHORD (1, 2, 3, 4) I, II, III.

MUSP 463. APPLIED ORGAN (1, 2, 3, 4) I, II, III, IV.

MUSP 471. PARA-VOICE (2) I, II, III. Fee: \$30.

MUSP 472. APPLIED VOICE (1, 2, 3, 4) I, II, III, IV.

MUSP 481. APPLIED VIOLIN (1, 2, 3, 4) I, II, III, IV.

MUSP 482. APPLIED VIOLA (1, 2, 3, 4) I, II, III, IV.

MUSP 483. APPLIED CELLO (1, 2, 3, 4) I, II, III, IV.

MUSP 484. APPLIED DOUBLE BASS (1, 2, 3, 4) I, II, III, IV.

MUSP 485. APPLIED HARP (1, 2, 3, 4) I, II, III.

MUSP 438-439, 477-479, 488-489 LARGE ENSEMBLES (1-2) I, II, III. Open to any student of University possessing necessary musical ability. Any student taking individual voice lessons may register for MUSP 477 or MUSP 478 or MUSP 479 only with consent of his/her voice instructor and conductor of ensemble. All credit earned in large ensembles placed on student's permanent academic record.

MUSP 438. SYMPHONIC OR CONCERT BAND (junior-senior) (1-2).*

MUSP 439. MARCHING BAND (junior-senior) (2).*

MUSP 477. A CAPPELLA CHOIR (junior-senior) (1).*

MUSP 478. COLLEGIATE CHORALE (junior-senior) (2).*

MUSP 479. UNIVERSITY CHORUS (junior-senior) (1).*

MUSP 488. CHAMBER ORCHESTRA (junior-senior) (1).*

MUSP 489. SYMPHONY ORCHESTRA (junior-senior) (2).*

MUSP 453. BRASS PEDAGOGY (3) III. Teaching techniques and materials for brass instruments.

MUSP 454. WOODWIND PEDAGOGY (3) III. Teaching techniques and materials for woodwind instruments.

MUSP 458. STRING PEDAGOGY (3) II. Upper and lower strings. Principles of teaching stringed instruments. Investigation of related literature and materials.

MUSP 459. ORGAN PEDAGOGY (3) I or II or III. On demand. Principles and techniques of teaching and literature applied to various levels of organ study.

MUSP 466. PIANO PEDAGOGY PRACTICUM (1) I, II, III. Laboratory in supervised piano teaching, both private and classes. Prerequisite: MUSP 366 or consent of instructor. May be repeated.

MUSP 467. PIANO TECHNOLOGY I (2) I. Appreciation of piano building, repair, and tuning. Minor repairs, regulation, and art of tuning. Prerequisite: consent of instructor.

MUSP 468. PIANO TECHNOLOGY II (2) II. Continuation of MUSP 467. Prerequisites: completion of MUSP 467 and consent of instructor.

MUSP 469. PIANO TECHNOLOGY III (2) III. Continuation of MUSP 468. Prerequisites: completion of MUSP 468 and consent of instructor.

MUSP 490. READINGS, RESEARCH, AND PERFORMANCE IN MUSIC (1-5) I, II, III, IV. Directed independent readings, research, and/or performance in performance studies in music. Prerequisite: consent of instructor and department chair.

MUSP 495. SENIOR RECITAL (2) I, II, III, IV. For performance studies majors. Full recital required during senior year prior to graduation. Recital repertoire requirements determined by respective areas within Performance Studies Department. Prerequisite: consent of area coordinator.

Nursing (NURS)

NURS 200. INTRODUCTION TO MAJOR HEALTH PROBLEMS (4) I. Two hours lecture, six hours media-skills lab and clinical experience. Self-care theory; nursing process; trends in health care system; assessment of individual's self-care deficit in meeting universal and developmental requisites.

NURS 201. CARE OF INDIVIDUALS WITH HEALTH PROBLEMS (5) II. Three hours lecture, six hours media-skills lab and clinical experiences weekly. Application of nursing process to care of individuals with health deviation requisites related to deficits in mobility and coordination. Prerequisite: NURS 200.

NURS 202. CARE OF INDIVIDUALS WITH HEALTH PROBLEMS (5) III. Two hours lecture, nine hours media-skills lab and clinical experiences. Application of nursing process to care of individuals with health deviation requisites related to deficits in nutrition and regulatory function. Prerequisite: NURS 201.

NURS 250. BIOCHEMISTRY (4) I. Biochemical processes at cellular level related to cell structure and organelles, permeability, enzymes, energy pathways, cell metabolism. Prerequisites: CHEM 111 and CHEM 112 and CHEM 213 and BIOL 201.

NURS 251. ANATOMY (4) II. Structure of body systems. Prerequisite: NURS 250.

NURS 252. PHYSIOLOGY I (4) III. Function of muscular, nervous, endocrine, gastrointestinal, reproductive systems. Prerequisite: NURS 251.

NURS 300. CARE OF ADULTS (6) I, II, III. Three hours lecture, nine hours clinical laboratory. Application of nursing process with adult individual with complex therapeutic self-care demands related to physiological deficits in oxygen transport/supply or in fluid/electrolyte imbalances; effects of health problem on the family. Prerequisite: NURS 202.

NURS 301. CARE OF FAMILY DURING MATERNITY CYCLE (6) I, II, III. Three hours lecture, nine hours clinical laboratory. Nursing process applied during all phases of maternity cycle in a variety of settings; focus on family's adaptation to childbearing. Prerequisite: NURS 202.

NURS 302. CARE OF THE CHILD (6) I, II, III. Three hours lecture, nine hours clinical laboratory. Application of nursing process with well child and with child with responsibility for child-rearing. Prerequisite: NURS 202.

NURS 310. CONCEPTS IN PROFESSIONAL NURSING (5) I. First part of two-quarter sequence to prepare RN student for entry into senior level nursing; focus on nursing process, concepts, theories, trends in contemporary health care systems; history taking and selected physical assessment skills. Prerequisite: admission to RN sequence.

NURS 311. HEALTH ASSESSMENT IN THE NURSING PROFESSION (6) II. Second part of two-quarter RN sequence, continuing nursing process and physical assessment skills; self-care theory of nursing. Prerequisite: NURS 310.

NURS 350. PHYSIOLOGY II AND PATHOPHYSIOLOGY (4) I. Function of cardiovascular, respiratory, urinary systems; function of disease processes in human organism. Prerequisite: NURS 252.

NURS 351. MICROBIOLOGY AND INFECTIOUS DISEASE PROCESSES (4) II. Microbiology, immunology, pathologic responses to infection, principal infectious diseases of man; structure and function of bacteria and viruses, antigen-antibody reactions, serology, growth and inhibition of microorganisms, pathogenesis and disease. Prerequisite: NURS 350.

NURS 352. PHARMACOLOGY AND THERAPEUTICS (4) III. Pharmacologic principles, drug metabolism, methods by which body handles drugs; classes of drug agents, effects on body's systems. Prerequisite: NURS 351.

NURS 400. PSYCHOSOCIAL NURSING (9) I, II, III. Three hours lecture, 18 hours clinical experience weekly. Concepts from behavioral, physical, social sciences to identify relationships which enhance or inhibit movement of individuals and families toward achieving and maintaining level of health consistent with needs and lifestyles. Prerequisites: NURS 300 and NURS 301 and NURS 302, or NURS 311 for RN student.

NURS 401. COMMUNITY HEALTH NURSING (9) I, II, III. Three hours lecture, 18 hours clinical experience weekly. Nursing process with clients, families, community; systems and financing of health care delivery; health legislation; epidemiology; environmental health, health planning, evaluation; evolving role of nurse in community. Prerequisite: NURS 300 and NURS 301 and NURS 302, or NURS 311 for RN student.

NURS 402. MANAGEMENT FOR QUALITY CARE (9) I, II, III. Three hours lecture, 18 hours clinical experience weekly. Leadership, change, quality assurance, collaboration, conflict resolution. Prerequisite: NURS 300 and NURS 301 and NURS 302, or NURS 311 for RN student.

NURS 405. ONCOLOGIC NURSING (4) I, II, III. Concepts, theories, trends in care of cancer patient; management methodologies; nurse's role in diagnosis, treatment, rehabilitation in preventive and supportive areas. Prerequisite: NURS 300 and NURS 301 and NURS 302, or consent of instructor.

NURS 411. BASIC CONCEPTS IN NURSING RESEARCH I (2) I, II. Research methodology for investigating nursing problems; relationships among theory, research, practice in construction of simple research design. Prerequisites: NURS 300 and NURS 301 and NURS 302, or NURS 311 for RN student. Graded S/U.

NURS 412. BASIC CONCEPTS IN NURSING RESEARCH II (2) II, III. Data collected and findings analyzed in individual projects; critical appraisal, application of nursing research. Prerequisite: NURS 411. Graded S/U.

Operations Research (OPRE)

OPRE 380. INTRODUCTION TO OPERATIONS

RESEARCH (4) I, II, III, IV. Philosophy underlying formulation of business problems in quantitative terms. Linear programming, special cases of linear programming, sensitivity analysis, inventory theory. Prerequisite: MATH 125 or MATH 231, sophomore business core, or consent of instructor.

OPRE 480. LINEAR AND INTEGER PROGRAMMING (4)

II, III. Modeling industrial and public administration problems via linear and integer programming; sensitivity analysis; parametric programming; dual, cutting plane methods; branch and bound methods; current topics in integer programming. Prerequisite: OPRE 380.

OPRE 482. COMPUTER SIMULATION OF STOCHASTIC SYSTEMS (4) II.

Techniques of setting up stochastic models for inventory, production, queuing, scheduling, economic systems; implementing these models using computer simulation languages (e.g. GPSS). Prerequisites: STAT 212 or MATH 442, and at least one computer programming course.

OPRE 485. INTRODUCTION TO STOCHASTIC MODELS

(4) II, III. Problems of incorporating risk into decision models; queuing theory; stochastic inventory models; Markov chains; stochastic mathematical programming. Prerequisite: OPRE 380. STAT 315 recommended.

OPRE 487. NETWORK THEORY AND SPECIAL TOPICS IN MATHEMATICAL PROGRAMMING (4) III alternate

years. Modeling industrial and public administration problems via network models; pert, transshipment, assignment, shortest route, maximal flow; out-of-kilter algorithm; goal programming; advanced topics in integer programming. Prerequisite: OPRE 480.

OPRE 488. THEORY OF INVENTORY SYSTEMS (4).

On demand. Theory and techniques of constructing and analyzing mathematical models of inventory systems; models under stochastic conditions. Prerequisite: OPRE 485.

OPRE 489. APPLIED NONLINEAR AND DYNAMIC

PROGRAMMING (4) III alternate years. Quadratic and separable programming; gradient projection; penalty function and search methods. Dynamic programming with discrete and continuous variables, and its relationship to linear programming; geometric programming; applications in industry and public administration. Prerequisite: OPRE 480 or consent of instructor.

OPRE 491. STUDIES IN OPERATIONS RESEARCH (1-5).

On demand. Investigation of selected areas of contemporary problems. May be offered individually and in classes, depending on student needs and nature of material.

Philosophy (PHIL)

- ★ **PHIL 100. EXPERIMENTS IN PHILOSOPHY** (4) I, II, III. Various topics in philosophy. Subject matter designated in class schedule. Experiments in teaching and subject matter encouraged. Restricted to freshmen and sophomores.
- ★ **PHIL 101. INTRODUCTION TO PHILOSOPHY** (4) I, II, III. Principal problems of philosophy; existence of God, mind-body, origin and validity of knowledge, freedom and determinism.
- ★ **PHIL 102. ETHICS** (4) I, II, III. Meaning of good and evil and right and wrong in context of contemporary moral issues.
- ★ **PHIL 103. LOGIC** (4) I, II, III. Relationship between logic and language, different kinds of arguments and proof strategies, fallacies, and deductive relationships between statements. Not open to students with credit for PHIL 303.

- ★ **PHIL 204. AESTHETICS** (4) I, II, III. Meaning of "beauty" or aesthetic value in art and nature, approached problematically and applied to present-day experience.
- ★ **PHIL 207. PHILOSOPHY OF MAN AND SOCIETY** (4) I, II, III. Freedom, authority, law, the state examined philosophically to determine nature of "individual" and "society" and relationship that should exist between them; violence, rights (legal and moral), punishment, alienation, justice, etc.

PHIL 210. PHILOSOPHY OF DEVELOPMENT OF

PERSONS (4) II, III. Self-development and criteria for evaluating life plans. Concepts of self-esteem and social responsibility applied to personal and counseling situations.

- ★ **PHIL 230. LOGIC OF SCIENCE** (4) II. Contemporary views of nature of science; logical positivism, Popper and Kuhn; logic of theories, theory testing, nature of scientific concepts, induction, growth of knowledge, relation of science and art.

- ★ **PHIL 240. TOPICS IN PHILOSOPHY** (4) I, II, III. Subject matter designated in class schedule. Primarily for students with little or no background in philosophy.

PHIL 245. PHILOSOPHY OF FEMINISM (4) III.

Philosophical presuppositions and specific proposals of feminists; view on sex roles, human welfare, justice and equality, rights, self-actualization, self-respect, autonomy, exploitation, oppression, freedom and liberation, reform and revolution.

PHIL 303. SYMBOLIC LOGIC (4) I, II. Notation and proof procedures used by modern logicians to deal with special problems beyond traditional logic; propositional calculus, truth tables, predicate calculus, nature and kinds of logical proofs.

PHIL 310. HISTORY OF ANCIENT PHILOSOPHY (4) I. Greek philosophy; Presocratics, Plato, Aristotle, post-Aristotelians.

PHIL 311. HISTORY OF MEDIEVAL PHILOSOPHY (4) II. Major philosophical positions of Middle Ages; St. Augustine through Renaissance philosophers.

PHIL 312. HISTORY OF MODERN PHILOSOPHY (4) III. Western philosophical thought from Renaissance to end of 18th century; emphasis on period from Descartes to Kant.

- ★ **PHIL 313. CONTEMPORARY PHILOSOPHY** (4) I. Western philosophy since 1900; logical positivism, analysis, phenomenology, existentialism, and major philosophers in each school.

PHIL 315. AMERICAN THOUGHT (4) I, II, III.

Philosophical thought in America; emphasis on pragmatists (Peirce, James, Dewey); Natural Rights philosophy, transcendentalism, other major figures such as Royce, Santayana, Whitehead.

- ★ **PHIL 317. PHILOSOPHY OF RELIGION** (4) I, II, III. Nature of religion; gods and/or God; faith, revelation, and religious belief; evil and righteousness; meaning of life. Readings from variety of sources, largely contemporary.

PHIL 318. PHILOSOPHY OF LAW (4) II. Philosophical foundations of legal system; essential nature of law and relation to morality; liberty, justice, and legal responsibility (intention, human causality, negligence, *mens rea*, fault, etc.) and punishment.

PHIL 319. PHILOSOPHY OF DEATH AND DYING (4) I, II, or III. Conceptual, metaphysical, and epistemological issues related to nature of death; existential issues related to human significance of death for individual and community; normative issues related to care of dying.

PHIL 321. INDIAN PHILOSOPHY (4) III. Traditional schools such as Nyaya-Vaisesika, Sankhya-Yoga, Buddhism and Vedanta; epistemology, systems of formal inference, causality, metaphysics, mind-body relationships, methodological presuppositions.

PHIL 322. CHINESE PHILOSOPHY (4) II. Confucianism, Taoism, Legalism, Chinese Buddhism and later development; problems of ethics, nature of man and society, epistemology, metaphysics, and logic.

PHIL 323. ASIAN RELIGIONS (4) I. Fundamental tenets of major oriental religions — Hinduism, Buddhism, Jainism, Confucianism, Taoism, and Shintoism; cultural backgrounds of India, China, and Japan.

★ **PHIL 324. HISTORY OF OCCIDENTAL RELIGIONS** (4). 'Bibles' of four major living religions of Near East — Zoroastrianism, Hebraism, Christianity, and Islam; cultural backgrounds of Egypt, Babylonia, Israel, Greece, and Rome.

PHIL 325. COMMUNISM, FASCISM AND DEMOCRACY (4) I. Freedom, alienation, human nature, the state, etc. as they function in communist, fascist, and democratic ideology.

PHIL 327. PHILOSOPHY OF PUNISHMENT (4) III. Justification of capital punishment; acceptability of imprisonment as punishment; desirability of treating criminals as mentally ill rather than punishing them; related issues of different theories of punishment.

PHIL 331. EXISTENTIALISM (4) I or II. Existentialist views on God and religion, meaning and absurdity, morality, freedom, individual integrity, politics, and psychology; Dostoevsky, Kierkegaard, Nietzsche, Sartre, Jaspers, Marcel, and Camus.

PHIL 332. ENVIRONMENTAL ETHICS (4) I or II. Framework to assess possible responses to environmental problems in light of human rights, standards of justice, and harm and benefit accruing from alternative solutions.

PHIL 333. PHILOSOPHY IN SCIENCE FICTION (4) II, III. Ethical problems such as implications for man of advancement of science, relation of individual to state; metaphysical problems such as distinguishing men from robots, possibility of time travel.

★ **PHIL 334. PHILOSOPHY IN LITERATURE** (4) III. Death, perception of self, conflict of values occurring in novels, plays, and poetry from various cultures. Content may vary from instructor to instructor, and from quarter to quarter. May be taken only once for credit.

PHIL 335. PHILOSOPHY OF FILM (4) III. Aesthetic theories concerning definition of film as distinctive art form; criteria for evaluation of films. Popular, documentary, art, and experimental films shown in class.

PHIL 340. PROBLEMS IN PHILOSOPHY (4) I, II, III. Subject matter designated in class schedule. Primarily for students with little or no background in philosophy.

PHIL 342. MEDICAL ETHICS (4) II, III. Abortion, genetic engineering, euthanasia, and experimentation viewed from perspective of representative ethical theories.

PHIL 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format is used. Requirements are usually completed within this expanded time format. May be repeated if topics differ and adviser approves.

PHIL 402. HISTORY OF ETHICS (4) I. Ancient, medieval, and modern ethical theories in relation to historical context; Plato, Aristotle, Hume, Mill, and Kant. Prerequisite: one course in PHIL (excluding PHIL 103 or PHIL 205) or consent of instructor.

PHIL 403. ADVANCED SYMBOLIC LOGIC (4) III. Structure and properties of axiomatic systems; consistency and completeness, meta-theory of propositional and predicate logic; related topics. Theory rather than problem solving stressed. Prerequisite: PHIL 303 or consent of instructor.

PHIL 406. PHILOSOPHY OF LANGUAGE (4) III.

Historical and contemporary theories of meaning; their use in resolving traditional philosophical controversies and in providing foundation for contemporary analytic philosophy; various interdisciplinary connections.

PHIL 412. THEORY OF KNOWLEDGE (4) I. Origin, content, and certainty of knowledge; philosophical psychology; problems of perception. Prerequisite: one course in PHIL (excluding PHIL 103 or PHIL 205) or consent of instructor.

PHIL 415. TOPICS IN AMERICAN PHILOSOPHY (4) II or III. Theme or themes central to American philosophy. Prerequisite: one course in PHIL (excluding PHIL 103 or PHIL 205) or consent of instructor.

PHIL 418. PHILOSOPHY OF HISTORY (4) I. Nature of historical knowledge and certain metaphysically oriented theories of history. Prerequisite: one course in PHIL (excluding PHIL 103 or PHIL 205) or consent of instructor.

PHIL 419. 17TH CENTURY RATIONALISM (4) I. Descartes, Spinoza, and Leibniz. Prerequisite: PHIL 312.

PHIL 420. 18TH CENTURY EMPIRICISM (4) II. Locke, Berkeley, and Hume. Prerequisite: PHIL 312.

PHIL 423. MAJOR PHILOSOPHERS (4) I, II, III or IV. In-depth, systemic study of views of a major philosopher; emphasis on integration of metaphysical, epistemological and normative theories into a coherent world view. May be repeated if topic differs. Prerequisite: one course in philosophy (excluding PHIL 103 and PHIL 205) or consent of instructor.

PHIL 425. PROBLEMS IN SOCIAL AND POLITICAL PHILOSOPHY (4) III. One or more concepts such as justice, authority, the state, representation, freedom, natural law, etc. Prerequisite: one course in PHIL (excluding PHIL 103 or PHIL 205) or consent of instructor.

PHIL 431. TOPICS IN PHILOSOPHY OF SCIENCE (4) I, II, III. Content varies from year to year. Topics include: nature of scientific explanation, causality, contemporary empiricism, philosophy of space and time. May be repeated for credit. Prerequisites: four hours in PHIL and/or course work in sciences or consent of instructor.

PHIL 432. PHILOSOPHY OF BEHAVIORAL SCIENCES (4) III. Methods, presuppositions, concepts of behavioral sciences. Possibility of forming values, freedom and determinism in problems of prediction, vitalism versus mechanism, meaning of man and society. Prerequisite: four hours in PHIL and/or course work in social sciences.

PHIL 433. PHILOSOPHY AND PHYSICS OF SPACE AND TIME (4) III. Physical theories of space and time from philosophical, scientific, and historical points of view. Topics include Zeno's paradoxes, Greek concepts of space and time, classical Newtonian world view, general ideas of modern theory of relativity and cosmology. Course presupposes high school level mathematics only. Cross-disciplinary; cross-listed in PHYS.

PHIL 440. SEMINAR IN PHILOSOPHY (4) I, II, III. In-depth examination of one specific philosopher, philosophical movement, or problem. Determined by need and interest of student. Prerequisite: four hours in PHIL (excluding PHIL 103 or PHIL 205) or consent of instructor.

PHIL 490. READINGS AND RESEARCH (1-4) I, II, III. Supervised independent work in selected areas. Prerequisite: 15 hours of PHIL and consent of chair of department. May be repeated to eight hours.

Physical Education (PEG) and (PEP)

(See health, physical education, and recreation)

Physics (PHYS)

PHYS 100. BASIC PHYSICS (4) I, II, III, IV. For nonscience student; major principles and concepts; application to other fields. Cannot be used as part of physics major or minor.

PHYS 101. PHYSICS FOR SOCIETY (4) I, II, III. Relation of physics to areas of natural science, cultural development, and society. Three lecture-recitations and one two-hour laboratory. For nonscience student, not acceptable toward physics major or minor.

PHYS 105. PHYSICS AND SPORTS (4) III. Motion as applied to athletic activities; how basic physical principles apply (e.g. why does "curve ball" curve?); how simple models may be used to make valid predictions.

PHYS 106. PHYSICS OF PHOTOGRAPHY (3) I. Intended to help photographer understand his/her equipment. Elementary optics of lens systems (wide angle to telephoto and zoom); exposure control, black and white film, color theory, stereo-photography.

- * ***PHYS 131. UNIVERSITY PHYSICS I** (5) I. Measurement, differential, and integral calculus applied to kinematics in one, two, and three dimensions; vector notation and vector algebra; Newtonian mechanics; gravitation; statics; conservation laws. Five lecture-recitations. Prerequisite: working knowledge of trigonometry required; knowledge of calculus recommended.

PHYS 201. MODERN ASTRONOMY (4) I, III. Concepts used to understand recent astronomical discoveries; birth and death of stars, pulsars, black holes, radio galaxies, quasars; galactic and extra-galactic astronomy; how universe is constructed on large scale. Some observational work. Four lecture/discussions. Not open to student with credit for ASTR 201.

- * ****PHYS 214. COLLEGE PHYSICS** (5) I, III, IV. Forces, energy, and wave motion. Sound and geometrical optics. Four lecture-recitations and one two-hour laboratory. Prerequisites: knowledge of algebra and trigonometry.
- * ****PHYS 215. COLLEGE PHYSICS** (5) I, II, IV. Physical optics, electromagnetic radiation; atomic and nuclear physics; relativity. Four lecture-recitations and one two-hour laboratory. Prerequisite: PHYS 214.
- * ****PHYS 216. COLLEGE PHYSICS** (5) II, III, IV. Electrical and basic electronics theory; integrated circuits, amplifiers, and oscillators with selected applications. Four lecture-recitations and one three-hour laboratory. Prerequisite: PHYS 214.

PHYS 225. APPLIED MECHANICS (3) III. Force systems, equilibrium, fluid statics, statically determinate structures. Primarily for pre-engineer. Three lecture-recitations. Prerequisite: PHYS 131.

- * ***PHYS 232. UNIVERSITY PHYSICS II** (5) II. Four lecture-recitations and one laboratory. Harmonic oscillations, wave motion, sound, optics, thermodynamics. Prerequisite: PHYS 131. Corequisite: MATH 131.
- * ***PHYS 233. UNIVERSITY PHYSICS III** (5) III. Four lecture-recitations and one laboratory. Electricity and magnetism. Prerequisite: PHYS 232. Corequisite: MATH 231.

PHYS 302. SOUND AND ULTRASONICS (4) III alternate years. Theory of sound and wave motion including ultrasonic phenomena. Four lecture-recitations. To be accompanied by one hour PHYS 313. Prerequisites: MATH 232, and PHYS 214 or PHYS 233.

PHYS 303. ELECTRONICS (5) II. Discussion and laboratory practices in networks, transistors, integrated circuits, and associated circuitry. Three lecture-recitations, two three-hour laboratories. Prerequisite: PHYS 216 or PHYS 233.

PHYS 304. MODERN OPTICS (4) III alternate years. Geometrical optics, physical optics, and spectroscopy. Elementary theory of photo-detector properties. Practice in electro-optics systems design. Four lecture-recitations. Prerequisite: PHYS 233 or PHYS 216.

PHYS 306. HEAT AND STATISTICAL PHYSICS (4) I alternate years. Thermodynamic laws, entropy, specific heats, and statistical physics. Four lecture-recitations. Prerequisites: MATH 232, and PHYS 214 or PHYS 232.

PHYS 313. ADVANCED PHYSICS LABORATORY (1-3) II, III. Independent laboratory work chosen from intermediate areas of classical and modern physics. May be repeated to nine hours. One three-hour laboratory period per credit hour. Prerequisite: PHYS 216 or PHYS 232.

***PHYS 334. MODERN PHYSICS** (5) I. Topics from relativity, quantum physics; nuclear, atomic, and molecular physics. Four lecture-recitations and one laboratory weekly. Prerequisite: PHYS 215 or PHYS 233.

PHYS 350. MUSICAL ACOUSTICS (4) I. Nature of vibration; sound waves, sources of musical sounds — strings, air columns, percussion, voice, noise; acoustics of rooms; recording, reproduction, and synthesis of sound. Not open to student majoring in physical sciences.

PHYS 402. NUMERICAL APPLICATIONS IN PHYSICAL SCIENCES (1-3) II. Application of computational techniques to contemporary physical science problems. Prerequisite: MATH 131 and CS 400, and introductory sequence of three courses in CHEM, PHYS, or GEOL.

PHYS 403. STELLAR STRUCTURE AND EVOLUTION (4) III alternate years. Basic data, stellar interiors, theoretical models; advanced evolutionary states: red giants, white dwarfs, neutron stars, supernovas, black holes. Prerequisites: PHYS 334 and consent of instructor. Not open to student with credit for ASTR 403.

PHYS 404. ATOMIC PHYSICS (4) II. Resume of phenomena leading to present concept of atomic structure. Four lecture-recitations. Prerequisites: MATH 232, and PHYS 215 or PHYS 334.

PHYS 407. RECENT PROGRESS IN ASTRONOMY (4) III 1980-81 and alternate years. Stellar evolution, supernovas and pulsars, black holes, x-ray astronomy, structure of galaxies, radio galaxies, cosmology, quasars. Prerequisite: PHYS 334. Not open to student with credit for ASTR 407.

PHYS 409. NUCLEAR PHYSICS (4) III alternate years. Nuclear structure and phenomena, nuclear reactions, elementary particle interactions. Four lecture-recitations. Prerequisite: PHYS 404.

PHYS 410. SOLID STATE PHYSICS (4) I alternate years. Continuum and atomic theories of solids, lattice vibrations, specific heat of solids, electron theory of metals and semiconductors. Four lecture-recitations. Prerequisite: PHYS 404 or PHYS 416.

PHYS 412. INFRARED MOLECULAR SPECTRA (4) I alternate years. Origin of spectra of simple molecules. Prerequisite: PHYS 334 or course in physical chemistry.

PHYS 413. INDEPENDENT STUDY (1-3) I, II, III. Introduction to research in physics and astronomy; projects chosen in consultation with adviser; may include library and laboratory work. Prerequisite: consent of instructor.

*The introductory sequence PHYS 131, PHYS 232, PHYS 233, and PHYS 334 intended for science student making use of calculus.

**Introductory sequence PHYS 214, PHYS 215, and PHYS 216 intended for student without calculus.

PHYS 416. MECHANICS AND WAVES (4) II alternate years. Vector kinematics of particles in two and three dimensions, dynamics of rigid bodies, Lagrange's and Hamilton's equations, harmonic motion, coupled oscillators, waves in continuous media. Prerequisite: PHYS 441.

PHYS 417. QUANTUM MECHANICS (4) III alternate years. Duality of matter and radiation, state functions and interpretation, Heisenberg uncertainty principle, wave equations and principles of wave mechanics, elementary applications of Schroedinger's equation, operator methods, and approximation techniques. Prerequisite: PHYS 416.

PHYS 418. ELECTROMAGNETIC FIELD THEORY I (4) II alternate years. Maxwell's theory of electromagnetic field with applications in propagation, absorption, reflection, transmission of radiation. Prerequisites: PHYS 441 and MATH 233.

PHYS 419. ELECTROMAGNETIC FIELD THEORY II (4) III alternate years. PHYS 418 continued with applications to guided waves and physical optics. Prerequisite: PHYS 418.

PHYS 420. X-RAY CRYSTALLOGRAPHY (3) III alternate years. Crystal symmetry, use and interpretation of x-ray powder patterns, single crystal x-ray diffraction techniques, methods of crystal structure determination. Students wishing to supplement course with laboratory experience should concurrently enroll in PHYS 313 for one hour credit. Prerequisite: consent of instructor.

PHYS 429. SELECTED TOPICS IN MICRO-ELECTRONICS (4) III. An individual, in-depth study of a microelectronic project. Designed to integrate the introductory knowledge gained in PHYS 303 and PHYS 428 into a complete microelectronic system. Four two-hour laboratory periods. Prerequisites: PHYS 428 and PHYS 303.

PHYS 430. SELECTED TOPICS IN PHYSICS (2-4) On demand. Selected topics not included in existing courses. Scheduling of course may be initiated by department staff or by students. May be repeated as different subjects are offered. Prerequisite: consent of instructor.

PHYS 433. PHILOSOPHY AND PHYSICS OF SPACE AND TIME (4) III. Physical theories of space and time from philosophical, scientific, and historical points of view. Topics include Zeno's paradoxes, Greek concepts of space and time, classical Newtonian world view, general ideas of modern theory of relativity and cosmology. Cross-listed in PHIL.

PHYS 441. INTRODUCTION TO THEORETICAL PHYSICS (4) I. Approximating with differentials, vector analysis, linear oscillator, vibrating systems, eigenvalue problems. Prerequisites: PHYS 233 and MATH 232.

PHYS 442. INTRODUCTION TO THEORETICAL PHYSICS (4) II. Fourier analysis, method of Frobenius, electrostatic potential theory, complex variables. Prerequisite: PHYS 441.

PHYS 490. SPECIAL PROBLEMS IN PHYSICS (1-4). On demand. Readings and research on recently developing topics chosen to fit needs of students.

Political Science (POLS)

- ★ **POLS 101. INTRODUCTION TO POLITICS** (4) I, II, III. Fundamental concepts and problems of politics illustrated with contemporary examples; comparison of modern political institutions in different cultures. Restricted to freshmen and sophomores.

- ★ **POLS 201. AMERICAN GOVERNMENT: PROCESSES AND STRUCTURE** (4) I, II, III. Constitutional basis and development, political processes (parties, nominations and elections, interest groups, public opinion), federalism, and institutions of national government.

POLS 221. INTRODUCTION TO PUBLIC ADMINISTRATION (4) I. American administrative system; emphasis on administrative structures and processes; relationship between elected offices and bureaucracy, notion of civil service, modes of managing administrative system.

POLS 250. HUMAN NATURE AND POLITICS (4). Contemporary and historical perspectives of what man is and can be in relationship to systematic thought about politics. Fundamentals of critical thought and analysis of political controversies. Designed for general students and for those considering political theory as a field.

POLS 271. INTRODUCTION TO WORLD POLITICS (4) I. Basic concepts of international relations; influences on behavior of nations; role of United Nations and other organizations; foreign policy of different regions and states; major world problems. Use of newspapers, audiovisual aids, simulations. Especially for freshmen, sophomores, juniors.

- ★ **POLS 290. INTRODUCTION TO POLITICAL INQUIRY** (4) I, III. Concepts and theories used by political scientists; traditional- and behavioral-political science; how political scientists establish and evaluate concepts and theories. Required of all majors; should be taken before any 300-level course. Nonmajors must receive permission of instructor.

POLS 301. MODERN POLITICAL IDEOLOGIES (4) I, II, III. Nature of political power, freedom, authority, and terrorism as seen in ideologies of democracy, capitalism, liberalism, conservatism, communism, anarchism, socialism, and fascism.

POLS 302. AMERICAN DOMESTIC POLICY PROCESS (4) I, II, III. Theories of public policy process; models of decision-making analysis; contemporary American domestic policy issues.

- ★ **POLS 304. AMERICAN POLITICAL THOUGHT** (4) II, III. As reflected in colonial, Federalist, Civil War, and recent phases of American political life.

POLS 330. URBAN MANAGEMENT (4) I. Urban problems, focus on available policy alternatives and administrative mechanisms; options in terms of efficiency/effectiveness criteria.

- ★ **POLS 331. STATE GOVERNMENT** (4) I. Federal-state relations; state constitutions; parties and elections in states; state legislative, executive, and judicial branches. Emphasis on Ohio.

- ★ **POLS 332. LOCAL GOVERNMENT** (4) II. Units of local government; state-local relations; municipal corporations and charters; forms of municipal government; county and metropolitan problems; political and service functions of local government. Emphasis on Ohio.

POLS 333. POLITICS, SCIENCE AND PUBLIC POLICY (4) On demand. Impact of politics and science in making national science policy. Politics of science, science and its use in making public policy, role of science and technology in America and other industrial countries.

POLS 334. HEALTH AND MEDICAL POLICY (4) II. Policies, issues, process involved in formulation and implementation of health care. Politics of delivery of health care, insurance programs, medical funding, human experimentation.

POLS 335. ECOPOLITICS (4) I, III. Key environmental and energy-related problems and their influence on national, state, and local policies.

POLS 337. FOOD RESOURCE POLITICS (4) II. How domestic and international political processes affect American food production and consumption through governmental legislation, agency regulation, and international agreement in interdependent world.

POLS 341. PUBLIC OPINION (4) I. Processes of opinion formation and change and operation of public opinion processes in democracy; models of linkages between public opinion and public policies. Prerequisite: POLS 101 or POLS 201 or comparable level courses in SOC or PSYC, or consent of instructor.

POLS 342. MASS MEDIA AND PUBLIC POLICY (4) II. Relationship between media and government in reporting public policy issues; secrecy in government, bias and distortion in news media.

POLS 345. LEGISLATIVE PROCESS (4) II. Legislative behavior and decision making; forces involved in formation of public policy; proposed reforms of Congress. Prerequisite: POLS 101 or POLS 201 or consent of instructor.

POLS 346. PRESIDENCY AND EXECUTIVE PROCESS (4) I, III. Organization, functions, and powers of office of President and Vice President; roles and presidential leadership psychology.

POLS 347. JUDICIAL PROCESS (4) III. American judiciary, particularly Supreme Court, as political institution; decision-making process and interaction of courts with rest of political system.

POLS 351. WESTERN EUROPEAN POLITICS (4) II. Political systems and major policy problems of selected European countries. Political culture, governmental structures, political parties, and interest group roles in policy development.

POLS 354. GOVERNMENT AND POLITICS OF SOVIET UNION (4) I. Structures and processes of Soviet political life; Marxist-Leninist ideology; goal of comprehensive political control; drive for social modernization.

POLS 355. GOVERNMENTS AND POLITICS OF LATIN AMERICA (4) I. Influence of cultural and socio-economic factors on politics; role of major political interests such as army, Catholic Church, labor, students; political parties; political processes; governmental institutions; significant policy problems.

POLS 361. GOVERNMENTS AND POLITICS OF MIDDLE EAST (4) I. Governmental and political processes of Turkey, Iran, Israel, Arab Republic of Egypt, other selected Middle Eastern and North African political systems; major developmental problems of the area.

POLS 368. AFRICAN POLITICAL SYSTEMS (4) III. African struggles for independence; problems of development of selected post-independence political systems and guerrilla movements in non-independent territories.

POLS 371. INTRODUCTION TO INTERNATIONAL RELATIONS (4) I. Determinants of behavior of actors in international political system; patterns of interaction among states; present and possible future trends in international system.

POLS 372. CONTEMPORARY WORLD POLITICS (4) I, III. Current substantive problems in international politics and major forces and factors affecting them.

POLS 374. AMERICAN FOREIGN POLICY (4) II. Major determinants of U.S. policy and analysis of substance of U.S. policy.

POLS 390. ANALYSIS OF COMPUTERIZED POLITICAL AND HISTORICAL DATA (4) I. (See also HIST 390.) Survey and historical data collected by Inter-University Consortium for Political and Social Research. Familiarization with data-management capabilities of computer program package designed to analyze consortium data. Not open to student with credit for HIST 390.

POLS 395. WORKSHOP ON CURRENT TOPICS (1-5) On demand. Intensive educational experience on such selected topics as government public information work (agencies, departments, executive and legislative office), and other state, local, national, and international political affairs. May be repeated if topics differ, on approval of adviser.

POLS 400. HONORS SEMINAR IN CONTEMPORARY POLITICAL SCIENCE (4) On demand. Political science as discipline and profession; forms of political inquiry and research; scientific and methodological orientations toward values and scholarship; public and professional status of political science.

POLS 402. WESTERN POLITICAL THOUGHT I (4) I. Classics of political philosophy of ancient and medieval period. Major ideas and concepts of western political tradition from Plato through Middle Ages.

POLS 403. WESTERN POLITICAL THOUGHT II (4) II. Classics of political philosophy of modern period. Major ideas and concepts of Western political tradition from Machiavelli to Mill.

POLS 404. 20TH CENTURY POLITICAL THOUGHT (4) II or III. Revolution and violence, elite theory, Freudian political thought, existentialist political thought, and democratic theory.

POLS 405. RECENT AMERICAN POLITICAL THOUGHT (4) III. American political ideas, ideologies, movements with fundamental social and political philosophies from Civil War to contemporary period. Prerequisite: POLS 304 or consent of instructor.

★ **POLS 416. CONSTITUTIONAL LAW: POWERS AND RELATIONSHIPS** (4). Supreme Court cases relating to U.S. governmental structure, powers, and relationships. Prerequisite: POLS 201 or consent of instructor.

POLS 417. CONSTITUTIONAL LAW: PROCEDURAL RIGHTS (4). Due process, right to counsel, search and seizure, electronic surveillance, jury trial. Prerequisites: POLS 201 and POLS 416, or consent of instructor.

POLS 418. CONSTITUTIONAL LAW: SUBSTANTIVE RIGHTS (4) II. Freedom of speech, press, and religion; equal protection of law, travel and privacy; right to vote. Prerequisites: POLS 201 and POLS 416 and POLS 417, or consent of instructor.

POLS 419. JURISPRUDENCE (4) II. Leading theories and theorists of law; Anglo-American thought and practice.

POLS 420. ADMINISTRATIVE LAW (4) II, III. Legal aspects of administrative process and effect of legal principles and processes on administrative decision making; emphasis on limitation of administrative discretion and judicial review of administrative decisions.

POLS 421. ADMINISTRATIVE POLITICS (4) I. Role federal bureaucracy plays in public policy process. Policy development; social and political factors that influence administrative branch of government. Prerequisite: POLS 221 or consent of instructor.

POLS 422. SURVEY OF PUBLIC ADMINISTRATION (4) II. Fundamental literature, concepts and practices in public administration; discussion of administrative leadership, decision making, communication, fiscal and personnel management aspects of public administration. Prerequisite: POLS 221 or consent of instructor.

POLS 423. COMPARATIVE PUBLIC ADMINISTRATION (4) On demand. Systems of U.S., Britain, Europe, and new states of Asia and Africa; influences of culture and history, difficulties of exporting Western institutions to developing nations.

POLS 424. SUPREME COURT AND CONTEMPORARY ISSUES (4) I. Selected areas of current concern in constitutional law; substantive knowledge of relevant case law, scholarly legal journals which attempt to predict outcome of future constitutional litigation. Prerequisite: POLS 417 or POLS 418.

POLS 425. CONSTITUTIONAL LAW ADVOCACY (4) I. Substantive knowledge of one area in constitutional law; practical skills necessary for constitutional adjudication: techniques of legal research, writing appellate court briefs, and appellate court advocacy. Prerequisites: POLS 416 and POLS 417, or POLS 418 and permission of instructor.

POLS 430. METROPOLITAN GOVERNMENT (4) III. Urbanization, suburbanization, and metropolitanization; structures of urban government; political and socio-economic consequences of metropolitanization; projected and proposed solutions to metropolitan problems.

POLS 431. REGULATORY POLICY (4). Development of regulation as instrument for correcting deficiencies of economic market, role in achieving societal purposes, problems of regulatory practice.

POLS 434. SEXUAL POLITICS (4) I, III. Socialization to, maintenance of, and change in gender political roles; patterns of dominance and submission in cross-cultural perspective.

POLS 436. CONDUCT OF AMERICAN FOREIGN AFFAIRS (4) II. Processes by which U.S. foreign policy is made and implemented: executive-legislative relationships, public and private interests, personalities involved; political process within national security bureaucracy.

POLS 440. POLITICAL PARTIES (4) III. Democracy and political parties: One- and two-party and dual and multi-factional or no-party systems in U.S.; party organization; primaries and conventions for nomination; campaigns and elections; electorate; past and future of American parties.

POLS 442. VOTER BEHAVIOR (4) III. Patterns of election participation and sources of partisan identification; examination of trends over several recent national elections. Prerequisite: POLS 201 or consent of instructor.

POLS 443. MASS MEDIA IN POLITICS (4) I. Techniques of modern election campaigns: management; use of research and voter profiles in developing strategy; tactics of mass persuasion; professional public relations in television and the electronic media.

POLS 444. POLITICAL BEHAVIOR (4) II. Political attitudes, belief systems, socialization, perception, culture, alienation and authoritarianism.

POLS 452. POLITICAL VIOLENCE AND REVOLUTION (4) II. Seminar offered alternate years. Theories about causes, processes, and consequences of violence as instrument of political competition and social change. Open to advanced social science undergraduate and graduate students or by consent of instructor.

POLS 453. SOVIET BEHAVIOR AND INSTITUTIONAL DEVELOPMENT (4) II. Approaches to study of Soviet Union that explain political science as method of analysis; ideological and other approaches to Soviet behavior; pre-Soviet political influences; state and society in Marxism; post-revolutionary developments in Soviet politics; consolidation of power under communist leaders. Prerequisite: POLS 354.

POLS 454. SOVIET POLITICAL SYSTEM (4) III. Political and managerial structures and policies of Soviet Union that explain regime and institutional character and tendencies; government and party power structures; ideological influences in social and economic policies; manipulation of decision-making structure; significance of Soviet external policies for major powers and emerging nations. Prerequisite: POLS 354.

POLS 456. MAJOR GOVERNMENTS OF LATIN AMERICA (4) On demand. Political systems of Argentina, Brazil, Chile, Cuba, Mexico, Peru.

POLS 459. INTERGOVERNMENTAL RELATIONS (4) III. Public policy issues and interaction with levels of government in American federal system. Dynamics of intergovernmental relations; grant-in-aid, revenue sharing, and changing federal relationships.

POLS 460. POLITICS OF DEVELOPING NATIONS (4) On demand. Economic, social, political transformation; challenge of old traditions; rise to power of leaders.

POLS 461. ISSUES IN WORLD DEVELOPMENT (4) III. and on demand. Advanced seminar on global ecopolitics in context of need for equitable development and social justice among nations. Topics: foreign aid, nuclear technology transfer, transnational corporations, population explosion, law of the sea, resource depletion, pollution, desertification, drought, developmental journalism, women in development.

POLS 470. SOVIET FOREIGN POLICY (4) II alternate years: Soviet foreign policy in post-war era; domestic and international determinants and consequences for Soviet-Western relations, socialist bloc, and third world.

POLS 473. INTERNATIONAL LAW (4) On demand. History, nature, sources, and applications; relationship between law and society at international level.

POLS 475. INTERNATIONAL ORGANIZATION (4) On demand. Major problems facing United Nations and other international organizations.

POLS 490 INDIVIDUAL PROBLEMS (1-4) I, II, III. On demand. Supervised individual readings to meet student's need for extended reading in familiar areas or for exploration in fields not covered by courses. Prerequisite: consent of supervising instructor. May be repeated to 12 hours.

POLS 491. SEMINAR FOR INTERNS (4). Required for students planning internships. Survey and analysis of literature dealing with practical political experiences. Use of biographical material as sources.

POLS 492. FIELD STUDY (1-4) I, II, III, IV. For students working on political internship programs and political campaigns. May be repeated to eight hours.

POLS 495. TOPICS IN POLITICAL SCIENCE (1-4) I, II, III. On demand. Subject matter varies. New, one-time courses being offered experimentally. See quarterly schedule for listing. Prerequisite: POLS 101 or POLS 201.

Popular Culture (POPC)

★ **POPC 160. INTRODUCTION TO POPULAR CULTURE (4) I, II, III.** Basic theories of, approaches to, and topics within popular culture; several selected topics and use of various theories and approaches.

★ **POPC 220. INTRODUCTION TO FOLKLORE AND FOLKLIFE. (4) I.** Study and collecting of folklore; ballads, myths, tall tales, heroes, folk medicines, superstitions, proverbs, arts, and crafts.

POPC 230. PERSPECTIVES ON POPULAR CULTURE (4) I, II, III. Study of theme, era, or problem of popular culture. Subject matter designated in class schedule. May be repeated once if topics are different.

POPC 240. HISTORY OF POPULAR CULTURE (4) I, II, III. From classical world to present; relationship between society and its popular culture; constant needs of man such as play, sex, ritual, etc.; changing needs of man in changing society.

★ **POPC 250. INTRODUCTION TO POPULAR FILM (4) I, II, III.** Popular film as mass entertainment medium; Hollywood studios, popular film formulae, genres, relationships between popular films and movie-going audience; viewing of appropriate films.

★ **POPC 260. POPULAR CULTURE AND MEDIA** (4) I, II, III.

Various types of culture and media which affect our lives—artistic and aesthetic accomplishments and failures; obvious and subtle forces and influences.

POPC 270. INTRODUCTION TO CONTEMPORARY POPULAR LITERATURE (4) I, II, III. Popular literary

formulae, publishing industry, relationship between popular literature and reading public, functions of popular literature in society.

POPC 280. INTRODUCTION TO POPULAR MUSIC (4) I, II, III. Relationship between music world and listening-viewing audience; musical styles, trends in popular music, popular performers and entertainers and what they reveal about popular culture; appropriate music listening.

POPC 290. TELEVISION AS POPULAR CULTURE (4) I, II, III. Relationship between popular television programming and American society; viewing of appropriate television.

POPC 350. ADVANCED STUDIES IN POPULAR FILM (4) II, III. In-depth study of particular aspect of popular film: single genre, particular director, specific studio, etc. May be repeated once if topics are different; viewing of appropriate films.

POPC 355. STUDIES IN HISTORY OF AMERICAN POPULAR FILM (4) I, III. Study of specific period in American popular film: silent era, films of Depression, films of post World War II, etc. May be repeated once if topics are different; viewing of appropriate films.

POPC 360. AMERICAN DREAM AND AMERICAN NIGHTMARE (4) II. American and foreign forces that shaped American Dream; reasons why dream never developed according to expectations. Prerequisite: POPC 160 or POPC 260.

POPC 370. POPULAR LITERATURE (5) I, II, III. Detective, science fiction, western, mystery, best sellers, poetry, magazine fiction. Prerequisite: any 200-level literature course or permission of instructor.

POPC 380. CONTEXTS OF POPULAR MUSIC (4) II, III. In-depth investigation into single aspect of popular music: specific popular music genres, specific musical themes in popular music, popular music industry, etc. May be repeated to eight hours if topics are different. Prerequisite: POPC 280.

POPC 390. ELECTRIC MEDIA (4) II, III. Cultural media theory as related to aural and visual electric media, especially radio and television. Impact of these media on contemporary culture. Prerequisite: one course in mass media or permission of instructor.

POPC 395. WORKSHOP ON CURRENT TOPICS (1-5) On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format. Requirements usually completed within expanded time format. May be repeated if topics differ, on approval of adviser.

POPC 400. SENIOR SEMINAR IN POPULAR CULTURE (4) II, III. Interdepartmental seminar for seniors in POPC program. Selected topics approached from several points of view. Prerequisites: senior standing and major in POPC or in discipline represented in POPC program.

★ **POPC 424. TOPICS IN FOLKLORE** (4) I, II, III. In-depth study of single topic. May be repeated once if topics are clearly different. Prerequisite: POPC 220 or permission of instructor.

POPC 426. POPULAR ENTERTAINMENTS (4) III. Cultural significance of popular entertainments, past and present: circuses, carnivals, parades, vaudeville, professional and amateur sports, camping, etc. Prerequisite: POPC 160 or POPC 260.

POPC 460. POPULAR CULTURE: ADVANCED STUDIES

(4) I, II, III. In-depth study of particular problem: development of hero in popular arts, cultural analysis of popular film, cultural analysis of popular music, etc. May be repeated once if subject matter is different. Prerequisite: POPC 260.

POPC 470. POPULAR LITERARY GENRES (4) I, II, III. Study of particular genre: science fiction, western, detective novel, etc. May be repeated once if genres are different. Prerequisite: POPC 370 or permission of instructor.

POPC 490. PROBLEMS IN POPULAR CULTURE (1-4) I, II, III. For advanced student. Independent study. Prerequisite: consent of director of POPC program to proposal approved by staff member three weeks prior to end of quarter. May be repeated to eight hours.

Psychology (PSYC)

★ **PSYC 201. GENERAL PSYCHOLOGY** (5) I, II, III, IV.

Prerequisite to all courses in department; scientific approach to study of behavior; applications to personal and social behavior. Students participate in departmental research. Open to freshman psychology major.

PSYC 231. RESEARCH METHODS IN PSYCHOLOGY I

(4) I, II, III. Research techniques; experimental techniques in learning, memory, language, perception, motivation. Three one-hour lectures and one two-hour laboratory. Prerequisite: PSYC 201. For nonpsychology majors only.

PSYC 232. RESEARCH METHODS IN PSYCHOLOGY II

(4) I, II, III. Research techniques; experimental and nonexperimental methods in social and industrial psychology, developmental psychology, personality, and psychopathology. Three one-hour lectures and one two-hour laboratory. Prerequisite: PSYC 231.

PSYC 240. GENERAL SEMINAR (1-5) I, II, III. Specific content areas offered depends on demand and interest of staff. May be repeated three times. Prerequisite: consent of instructor.

PSYC 270. QUANTITATIVE METHODS I (4) I, II, III, IV.

Descriptive statistics and correlation. Three one-hour lectures and one two-hour laboratory. Prerequisite: PSYC 201 or consent of instructor.

PSYC 271. QUANTITATIVE METHODS II (4) I, II, III, IV.

Parametric and nonparametric tests of significance. Three one-hour lectures and one two-hour laboratory. Prerequisite: PSYC 270.

PSYC 290. INTRODUCTION TO LABORATORY

METHODS IN PSYCHOLOGY (4) I, II, III. Use of apparatus, handling of human and animal subjects, experimental control, elementary problems, and data interpretation in writing formal laboratory reports. Prerequisites: PSYC 201 and PSYC 270. Prerequisite or corequisite: PSYC 271.

PSYC 301. BRAIN MECHANISMS OF BEHAVIOR (4) I, III.

Brain structure and function in organization of consciousness, perception, motivation, and learning; sleep, dreaming, memory, drugs, glands, personality, electrical stimulation of brain. Laboratory hours by arrangement. Prerequisites: PSYC 201 and PSYC 290, or consent of instructor.

PSYC 302. EDUCATIONAL PSYCHOLOGY (4) I, II, III, IV.

(See EDFI 302.) Concepts and factors affecting application of psychological principles to educative process. Prerequisite: PSYC 201.

★ **PSYC 303. DEVELOPMENTAL PSYCHOLOGY** (3) I, III.

Major concepts, theories, and principles of developmental psychology. Coverage is from conception until 5-6 years of age. Prerequisite: PSYC 201.

PSYC 304. DEVELOPMENTAL PSYCHOLOGY (3) II, IV. PSYC 303 continued; coverage is from 5-6 years of age through adolescence. Prerequisite: PSYC 201 or permission of instructor.

★ **PSYC 305. PSYCHOLOGY OF PERSONALITY ADJUSTMENT** (3) I, II, III, IV. Problems of personal adjustment. Related problems of theory and measurement of personality. Prerequisite: PSYC 201.

★ **PSYC 306. PSYCHOLOGY OF WOMEN** (4) I, III. Psychological characteristics of women; personality, adjustment, identity formation, intellectual processes, sexuality; theories and data on female development.

★ **PSYC 307. PSYCHOLOGY OF HUMAN SEXUALITY** (4) I, II, III. Sexual physiology, psycho-social aspects of sexual behavior, sexual dysfunction and therapy, comparative sexual behavior.

PSYC 308. INTRODUCTION TO CLINICAL PSYCHOLOGY (4) III. Models and roles associated with delivery of mental health services; major conceptions of psychological assessment and treatment. Prerequisite: PSYC 201.

PSYC 309. PSYCHOLOGY OF AGING (3) I, III. Personality, social behavior, memory, sensory and perceptual processes; theories and descriptions of adult behavior. Prerequisite: PSYC 201.

★ **PSYC 311. SOCIAL PSYCHOLOGY** (3) I, II. Social behavior covering theoretical issues and recent empirical findings; social influence and conformity processes; nature, measurement, and acquisition of attitudes; attitude change; social perception; group processes; sexual behavior; environmental influences on social behavior. Prerequisite: PSYC 201 or SOC 101.

PSYC 312. PRINCIPLES OF SOCIAL INTERACTION (3) II, III. Theoretical issues and recent empirical findings; animal social behavior; interpersonal attraction, pro-social behavior; aggression; social exchange processes; and social psychology in changing world. Prerequisite: PSYC 201 or SOC 101. PSYC 311 recommended.

PSYC 313. RESEARCH IN SOCIAL PSYCHOLOGY (4) III. Field and laboratory research techniques in social psychology; attitude change, conformity, attraction, environmental effects on social behavior, aggression, group processes. Three lecture hours, two laboratory hours. Prerequisites: PSYC 201 and PSYC 271 and PSYC 290.

PSYC 315. APPLIED PSYCHOLOGY (4). Applications of principles generated in experimental industrial, social, perceptual, learning, and other areas of research in psychology to real world situations. Prerequisite: PSYC 201.

PSYC 320. CONDITIONING (4) I. Classical conditioning and instrumental learning from empirical and theoretical point of view. Laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290.

PSYC 321. HUMAN LEARNING (4) II. Principles of human learning; verbal learning, performance, and memory. Three lecture hours; laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290.

PSYC 322. PSYCHOLOGY OF THINKING (4) I, II. Theory and research on nature of human thinking; problem solving, reasoning, concept formation. Three lecture hours; laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290.

PSYC 323. PSYCHOLOGY OF LANGUAGE (4) I, III. Theoretical and empirical issues in psycholinguistics; speech perception, syntactic and semantic processes, symbolization, relation of language and thinking. Three lecture hours; laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290, or consent of instructor.

PSYC 324. AMERICAN SIGN LANGUAGE OF DEAF (4) I. Manual system of communication used in U.S.; grammar and lexicon of American Sign Language; implications of deafness for language and communication; psycholinguistic studies of Sign Language.

PSYC 327. BIOFEEDBACK AND SELF CONTROL (4) I, II, III, IV. Basic theory and technique used in control of somatic and visceral responses; biofeedback and other approaches to self regulation of physiological responses as related to applied and theoretical concerns. Some laboratory experiences. Prerequisite: PSYC 201.

PSYC 328. PSYCHOPHYSIOLOGY (4) I, II, III, IV. Laboratory course in psychophysiology; relationship between psychological states and physiological responses, in human; conditioning of autonomic responses, orienting responses, psychosomatic relationships and disorders, detection of deception. Four lecture hours, laboratory by arrangement. Prerequisites: PSYC 271 and PSYC 290.

PSYC 329. APPLIED BEHAVIORAL ANALYSIS (4) II. Applying behavioral methodology to clinical cases. Research involving applications of experimental analysis of behavior to clinical problems. Prerequisites: PSYC 308 and consent of instructor.

PSYC 330. PSYCHOBIOLOGY OF EMOTIONS AND MOTIVATION (4) II. Biological causes of motivated behaviors such as sleep, hunger, thirst, fear, aggression, and sexual behavior; how motivated behaviors and related emotional states are organized in brain, as elucidated by electrical and chemical stimulation and ablation of living brain. Laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290. PSYC 301 recommended.

PSYC 331. HUMAN MOTIVATION (4) II. Influences on problems of initiative and persistence in behavior, behavior choice, and related motivational phenomena from varied theoretical perspectives. Three lecture hours; laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290.

PSYC 340. SENSATION AND PERCEPTION (4) III. Sensory and perceptual processes. Laboratory hours by arrangement. Prerequisites: PSYC 271 and PSYC 290.

★ **PSYC 352. WORK, EFFORT AND SATISFACTION** (3) III. Work performance and motivation (as formulated by current theories), job satisfaction, individual differences, and task and situational factors; evaluation of effort, attitudes, and change. Prerequisite: PSYC 201.

PSYC 395. WORKSHOP ON CURRENT TOPICS (1-5) On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated format. Requirements usually completed within time format. May be repeated on approval of adviser.

PSYC 401. HISTORY OF PSYCHOLOGY (4) II. Selected topics; reading of original sources. Psychopathology, animal psychology, behaviorism, cognitive psychology, personality theory, others. Prerequisite: PSYC 201 or consent of instructor.

PSYC 403. PERSONALITY THEORY (4) I, IV. Scientific constructs in personality theory; contemporary theories with historical antecedents; assessment of relationship to general psychology. Prerequisite: eight hours in PSYC.

PSYC 404. ADVANCED DEVELOPMENTAL PSYCHOLOGY (3) III, IV. Major theoretical systems reviewed from standpoint of research findings; methodology appropriate for research with children. Prerequisite: consent of instructor.

★ **PSYC 405. PSYCHOLOGY OF ABNORMAL BEHAVIOR** (5) I, II, III, IV. Data and concepts used in understanding, labeling, and modifying deviant behavior. Prerequisite: PSYC 201.

PSYC 406. BEHAVIOR PATHOLOGY IN CHILDREN (4) III. Major behavioral disorders of childhood: description, etiological implications, treatment issues, approaches and problems, and related research. Prerequisite: PSYC 201 or consent of instructor.

PSYC 411. PSYCHOLOGY OF INTERPERSONAL COMMUNICATION (4) III. Communication in social situations; social communication in nonhumans; evolutionary patterns of social communication; communication as instrument of social influence; organizational, therapeutic, and nonverbal communication. Research findings emphasized. Prerequisite: PSYC 201.

PSYC 412. EXPERIMENTAL GROUP DYNAMICS (4) I. Theories, methods, and problems in experimental research in group dynamics. Experimental hours by arrangement. Prerequisites: PSYC 201 or SOC 101, and PSYC 270 or SOC 307, and PSYC 290.

PSYC 413. APPLIED EXPERIMENTAL PSYCHOLOGY (4) I. Methods and results applied to problems involving systems and other man-machine relationships. Prerequisites: PSYC 201 and PSYC 271 and PSYC 290; or consent of instructor.

PSYC 416. HUMAN JUDGMENT AND DECISION MAKING (4) I, IV. Psychology of judgment and decision making; utility theory, computer simulation, and lens model; research in medical diagnosis and decision making; conflict reduction in groups and organizations. Prerequisite: PSYC 201 and any course in STAT.

PSYC 421. THEORIES OF LANGUAGE DEVELOPMENT (4) III. Empirical facts of linguistic development; theories to explain how and why language is acquired; relations between cognitive and linguistic development. Prerequisite: PSYC 201 or consent of instructor.

PSYC 425. COMMUNITY MENTAL HEALTH (4) I, III. Development, concepts and current models in community mental health; individual and system-centered approaches that promote mental health and prevent psychological maladjustment; federal, state, and county programs. Prerequisite: PSYC 201 or consent of instructor.

PSYC 431. PRINCIPLES OF SUBPROFESSIONAL MENTAL HEALTH WORK (4) I. One of two prerequisites for field placement as subprofessional, taken simultaneously with PSYC 432. Models and roles associated with delivery of mental health services. Prerequisite: PSYC 308 and consent of instructor.

PSYC 432. BEHAVIORAL ANALYSIS AND INTERVENTION (4) I. One of two prerequisites for field placement as subprofessional, taken simultaneously with PSYC 431. Procedures for behavioral analysis and intervention; participation with practicing clinical "team"; field experiences. Prerequisite: PSYC 308 and consent of instructor.

PSYC 433. SUBPROFESSIONAL MENTAL HEALTH PRACTICUM I (3) II. Students engage in those mental health activities they trained for during previous quarter. Includes placement in one of variety of mental health settings. Prerequisites: PSYC 431 and PSYC 432 and consent of instructor.

PSYC 434. SUBPROFESSIONAL MENTAL HEALTH PRACTICUM II (7) III. Field experience for mental health subprofessional. Student increases experience with broad number of mental health problems working in community mental health setting. Prerequisites: PSYC 329 and PSYC 433 and consent of instructor.

PSYC 440. GENERAL SEMINAR (1-5) I, II, III. Specific content areas offered depends on demand and interest of staff. May be repeated three times. Prerequisite: consent of instructor.

★ **PSYC 452. PERSONNEL SELECTION (4)** II. Methods of selection and assessment for hiring, promotion, etc. in industrial and other organizations; compliance with fair employment practices and equal employment opportunity regulations. Prerequisite: PSYC 201.

PSYC 453. ORGANIZATIONAL PSYCHOLOGY: BEHAVIOR IN ORGANIZATIONS (3) I. Study of research dealing with behavior of individuals within work organizations; role taking processes, group interaction, career path development, performance appraisal procedures, and methods of organizational change. Prerequisite: PSYC 201.

PSYC 454. INTERVIEWING (4) II. Laboratory exercises in administering and responding to interviews differing in structure; behavior, decisions, and interrelationships within interviews; validity and reduction of bias. Prerequisite: PSYC 201.

PSYC 455. VOCATIONAL CHOICE AND CAREER DEVELOPMENT (4) II. Cognitive and personality variables associated with career development; ethnic and sex differences in vocational behavior.

PSYC 456. PSYCHOLOGY OF LEADERSHIP (4) III. Principles of leadership and supervision. Effects of style of leadership upon individual behavior, group attitudes, and organizational effectiveness; leadership from supervisors' and subordinates' point of view. Prerequisites: PSYC 201 and PSYC 270; or consent of instructor.

PSYC 457. PAY AND MOTIVATION (3) III. Relationship between pay and goals, working conditions, fringe benefits, and other organizational incentives. Prerequisite: PSYC 201.

PSYC 460. INTRODUCTION TO PSYCHOLOGICAL TESTING (4) III, IV. Theory and methods of measuring human behavior; representative group tests of intelligence, interest, aptitude, personality. Prerequisites: PSYC 201 and PSYC 270.

PSYC 461. DIFFERENTIAL PSYCHOLOGY (4) III. Individual differences and differences associated with identifiable bases of subgrouping within population: sex differences, ethnic differences, age differences, etc., in intellectual, physical, and personality traits.

PSYC 462. HUMAN DEVELOPMENT AND GROWTH IN ORGANIZATIONS (4) I, II, III. See MGMT 462. Cognitive processes, task design, motivation, organization climate and structure; roles, functions and goals.

PSYC 463. THEORIES OF INTELLIGENCE (4) III, IV. Traditional and current theories from view of structure, development, operation; techniques designed for evaluation of intellectual potential and functioning. Prerequisite: PSYC 460 or EDFI 402.

PSYC 470. QUANTITATIVE METHODS III (5) I, III. Analysis of variance. Four lecture hours and one two-hour laboratory. Prerequisites: PSYC 270 and PSYC 271.

PSYC 480. EVOLUTION OF ANIMAL AND HUMAN BEHAVIOR (4) III. Animal roots of human behavior; evolution of behavioral adaptations; social organization and disorganization; animal communication; relations between complexity of behavior and central nervous system functions; use of animals in elucidating human behavior. Prerequisite: PSYC 301.

PSYC 484. HEREDITY, INTELLIGENCE, AND PERSONALITY (3) II. Effects of heredity factors on intelligence, mental retardation, personality, schizophrenia; genotype-environment interactions. Recommended: PSYC 270.

PSYC 490. SPECIAL PROBLEMS IN PSYCHOLOGY (1-5) I, II, III, IV. Supervised Independent minor research or intensive reading on selected problems. No student may register for course without written approval of staff member concerned. May be repeated to nine hours.

PSYC 495. SENIOR HONORS SEMINAR (3) I. Seminar in general psychology for senior major. Student required to plan and carry out research project under direction of faculty member. Prerequisite: senior major, approval by department undergraduate committee.

PSYC 496. SENIOR HONORS SEMINAR (3) II. PSYC 495 continued.

PSYC 497. SENIOR HONORS SEMINAR (3) III. PSYC 496 continued.

Radio-Television-Film (RTVF)

(See speech communication)

Recreation and Dance (RED)

(See health, physical education, and recreation)

Romance Languages (ROML)

ROML 200. EUROPEAN AND LATIN AMERICAN CINEMA (4). Films of cultural and literary significance from Mediterranean and Latin American countries seen through study of selected topics, themes, or movements. Taught in English. Includes viewing of films with subtitles.

ROML 262. AFRICAN LITERATURE IN TRANSLATION (4) III. Literary masterpieces from or about Africa, including negritude movement. Works originally written in romance languages. Does not count toward French or Spanish major or minor.

ROML 491. READINGS IN ROMANCE LANGUAGES AND LITERATURE (1-4) I, II, III, IV. Independent reading for advanced students wishing to conduct comparative study in particular period, author or authors, problem, or genre. Prerequisite: consent of chair of department and instructor.

Russian (RUSN)

Entering students who had Russian in high school should take placement test during summer Preregistration or prior to enrollment in course.

RUSN 100. INTRODUCTION TO LANGUAGE STUDIES: RUSSIAN (2) I, II, III. Lecture-reading course in English introducing students to cultural development of Russian language.

***RUSN 101. ELEMENTARY RUSSIAN (4) I.** Stresses speaking, understanding, reading, and writing.

***RUSN 102. ELEMENTARY RUSSIAN (4) II.** RUSN 101 continued. Prerequisite: RUSN 101 or one year of high school Russian.

***RUSN 103. ELEMENTARY RUSSIAN (4) III.** RUSN 102 continued. Prerequisite: RUSN 102.

***RUSN 201. INTERMEDIATE RUSSIAN (4) I.** Continuation of RUSN 101-103. Grammar, reading, composition, conversation, translation. Prerequisite: RUSN 103 or two years of high school Russian.

***RUSN 202. INTERMEDIATE RUSSIAN (4) II.** RUSN 201 continued. Prerequisite: RUSN 201 or three years of high school Russian.

RUSN 303. INTRODUCTION TO SCIENTIFIC RUSSIAN (3) II. Reading and grammar designed for science-oriented students who wish to build effective reading knowledge of scientific Russian. Prerequisite: RUSN 201.

RUSN 311. RUSSIAN LITERATURE: FROM BEGINNINGS THROUGH PUSHKIN (4) I. Literary trends from 11th to early 19th century; medieval and baroque periods, 18th century classicism and sentimentalism, Pushkin. Lectures in English. Prerequisite: RUSN 202. Open to nonmajors who will read assigned works in English translation and need no prerequisite.

*Credit toward graduation is not allowed for RUSN 101, RUSN 102, RUSN 103, RUSN 201, and RUSN 202 when equivalent credit has been accepted from high school as part of admission credits except that student is allowed to duplicate one unit of high school study with university credit.

RUSN 312. RUSSIAN LITERATURE IN 19TH CENTURY (4) II. Social, political, and cultural trends of Golden Age. Principal writers: Gogol, Lermontov, Dostoyevsky, Tolstoy, Chekhov, Goncharov, Turgenev, others. Lectures in English. Prerequisite: RUSN 202. Open to nonmajors who will read assigned works in English translation and need no prerequisite.

RUSN 313. RUSSIAN LITERATURE IN 20TH CENTURY (4) III. Principal literary monuments in pre- and post-revolutionary periods. Principal writers: Blok, Mayakovsky, Pasternak, Evtushenko, Sholokhov, Solzhenitsyn, others. Lectures in English. Prerequisite: RUSN 202. Open to nonmajors who will read assigned works in English translation and need no prerequisite.

RUSN 315. READINGS IN RUSSIAN CULTURE (3) II. Language, syntax, and topics of academic and literary Russian in natural sciences, social sciences, and humanities. Prerequisite: RUSN 201.

RUSN 316. READINGS IN RUSSIAN CULTURE (3) III. RUSN 315 continued. Prerequisite: RUSN 201.

RUSN 317. COMPOSITION AND CONVERSATION (3) I. Intensive oral and written work; emphasis on mastery of phonology, basic structural patterns, coordinated with literary readings. Prerequisite: RUSN 201.

RUSN 318. COMPOSITION AND CONVERSATION (3) II. RUSN 317 continued. Prerequisite: RUSN 317.

RUSN 319. JOURNALISTIC RUSSIAN (3) III. Practice in language and syntax of contemporary Russian journalism: expository prose, newspapers, journals, monographs, magazines, etc. Prerequisite: RUSN 201. RUSN 317 and RUSN 318 recommended.

RUSN 331. WORKSHOP IN TRANSLATION (1-4) III. Individualized and/or small group work in translation of scientific, technical, or business writing or other types of expository prose in student's specialty. May be repeated to eight hours. Prerequisite: at least one course from RUSN 202, RUSN 303, RUSN 315, RUSN 316, or RUSN 319.

RUSN 401. RUSSIAN POETRY (4) I. Russian lyric from mid-18th century through contemporary Soviet verse. Prerequisites: RUSN 202 and RUSN 311 and RUSN 312 and RUSN 313.

RUSN 402. RUSSIAN NOVEL (4) II. Detailed study of great tradition of Russian novel. Primary readings consist of authors such as Karamzin, Pushkin, Gogol, Turgenev, Tolstoy, Dostoyevsky, Gorky, Solzhenitsyn. May be repeated for credit when offered with different content. Prerequisites: RUSN 311 and RUSN 312 and RUSN 313. Open to nonmajors who will read assigned works in English translation and need no prerequisite.

RUSN 403. RUSSIAN DRAMA (4) III. Major works of Russian dramatic literature as exemplified by Polotski, Fonvizin, Griboyedov, Pushkin, Ostrovski, Turgenev, Tolstoy; emphasis on Chekhov and Moderns. Prerequisites: RUSN 202 and RUSN 311 and RUSN 312 and RUSN 313. Open to nonmajors who will read assigned works in English translation and need no prerequisite.

RUSN 415. CULTURAL AND LITERARY ASPECT OF SOVIET FILM (4). On demand. Soviet film both as visualization of Russian literature and as instrument of social and political persuasion through various esthetics—expressionism, socialist realism, psychological realism.

RUSN 417. ADVANCED COMPOSITION AND CONVERSATION (3) III. Develops increased facility in written composition and spoken language. Grammatical structure and levels of style in writing and colloquial idiom in spoken dialogue. Prerequisite: RUSN 318.

RUSN 431. RUSSIAN CULTURE (4) I. Culture and civilization of Russian people from origins to recent past. Prerequisite: RUSN 202 or permission of instructor. Open to nonmajors who will read assigned works in English translation and need no prerequisite.

RUSN 432. RUSSIAN FOLKLORE (4) I. Survey of major genres of Russian folk literature and folk culture and influence on Russian folk literature and language. Prerequisite: RUSN 202 or permission of instructor. Open to nonmajors who will read assigned works in English translations and need no prerequisite.

RUSN 433. STRUCTURE AND GROWTH OF RUSSIAN LANGUAGE (4) III. History of standard Russian language linked to cultural developments; special attention to Slavic and non-Slavic influences. Phonetic and grammatical patterns of contemporary Russian. (Required of Russian teaching majors.) Prerequisite: RUSN 202.

RUSN 480. SELECTED READINGS IN RUSSIAN LITERATURE (3) III. Topic chosen to meet curriculum needs and student requests. May be repeated to six hours. Prerequisites: RUSN 202 and RUSN 311 and RUSN 312.

RUSN 491. READINGS IN RUSSIAN LITERATURE (1-4) I, II, III. Independent reading for advanced student who wishes to study particular period or author. Prerequisite: department permission and consent of instructor.

Social Work (SOWK)

★ **SOWK 110. SURVEY OF SOCIAL SERVICES** (4) I, II, III, IV. Social service programs; functions of social workers within these programs.

★ **SOWK 220. INTRODUCTION TO SOCIAL WORK** (4) I, II. Basic concepts, knowledge base, and development of communication skills. Prerequisite: SOWK 110.

SOWK 225. HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT (4) I, II. Impact of biological, psychological, and socio-cultural systems on human development and behavior. Prerequisite: junior standing.

SOWK 227. SOCIAL WORK: ETHNIC PERSPECTIVE (4) I, III. Issues and concepts important to understanding problems surrounding ethnicity and relationship to social work. Prerequisite: sophomore standing.

SOWK 321. SOCIAL WELFARE INSTITUTIONS (4) I, II, III. Social welfare as social institution; history, developmental forces, value systems, relationships between, and various roles of, public and private agencies. Prerequisite: SOWK 220.

SOWK 322. SOCIAL POLICY AND SOCIAL SERVICES (4) I, II. Social problems, social policy, and social services as interrelated areas. Basic models introduced for evaluating and influencing social policy. Prerequisite: SOWK 321.

SOWK 325. SOCIAL WORK PRACTICE I (4) I, II, III. Components of generic social work practice; problem identification, selection of interventive techniques, development of skills. Prerequisites: SOWK 321 and junior standing and social work major.

SOWK 326. SOCIAL WORK PRACTICE II (4) I, II, III. Small group processes in context of various social work functions, including direct intervention. Prerequisite: SOWK 325.

SOWK 327. SOCIAL WORK PRACTICE III (4) I, II, III. Social work practice models, strategies for community organization and change. Prerequisites: SOWK 325 and junior standing and social work major.

SOWK 330. RURAL SOCIAL WORK ASSESSMENT (4) I, III. Issues involved in rural social work practice. Visitation of selected rural agencies, assessment of needs and services in selected agencies. Prerequisites: SOWK 220 and permission of instructor.

SOWK 332. LAW FOR SOCIAL WORKERS I (4) I. Legal issues related to social work; court procedure, crime, poverty, and income maintenance. Prerequisite: junior standing.

SOWK 333. LAW FOR SOCIAL WORKERS II (4) II. Legal issues related to social work; family law. Prerequisite: SOWK 332.

SOWK 423. FIELD INSTRUCTION I (8) I, II, III, IV. Experience working in selected social agency under supervision. Emphasis on practice rather than observation. Weekly seminar required. Application deadline two months before placement. Prerequisites: senior standing, social work major, and 2.5 GPA in core courses. Graded S/U.

SOWK 424. FIELD INSTRUCTION II (8) I, II, III, IV. Continuation of SOWK 423. Student works in selected social agency under supervision. Further development of practice skills. Prerequisite: SOWK 423. In some instances, SOWK 423 and SOWK 424 may be taken concurrently. Graded S/U.

SOWK 440. SENIOR CAPSTONE SEMINAR (4) II, III. Selected areas identified by students as learning gaps in total social work educational experience. Individual or small group activity. Prerequisite: senior standing in social work.

SOWK 470. TOPICS IN SOCIAL WORK (1-4). On demand. Courses being considered for offering on regular basis. May be repeated.

SOWK 490. INDEPENDENT STUDY (1-4) I, II, III, IV. Student designs and carries out study or special project in area of interest. Prerequisite: junior standing and permission of program director. May be repeated.

Sociology (SOC)

★ **SOC 101. PRINCIPLES OF SOCIOLOGY** (4). Elements and concepts of social organization, social change, and group relationships.

★ **SOC 202. SOCIAL PROBLEMS** (4). Sociological analysis of contemporary social problems. Prerequisite: SOC 101.

★ **SOC 210. SOCIOLOGY OF RELIGION** (3). Role of religion in society; influence of religion upon society and effects of social structure on religious beliefs. Prerequisite: SOC 101.

★ **SOC 231. CULTURAL ANTHROPOLOGY** (4). Basic concepts and objectives in study of culture. Range of cultural phenomena and approaches to their study.

SOC 300. TOPICS IN SOCIOLOGY (1-4). On demand. Courses being considered for offering on regular basis. See quarterly schedule for listing. May be repeated. Prerequisite: SOC 101.

★ **SOC 301. SOCIAL PSYCHOLOGY** (4). Social behavior; process of interaction and interpersonal influence. Prerequisites: SOC 101 and PSYC 201.

SOC 302. INTRODUCTION TO CLASSICAL SOCIOLOGICAL THEORY (4). Major theories and concepts of sociology. Prerequisite: SOC 101.

SOC 303. INTRODUCTION TO CONTEMPORARY SOCIOLOGICAL THEORY (4). Concepts and frames of reference of major contemporary theories. Prerequisite: SOC 101.

SOC 311. THE COMMUNITY (4). Communal life from beginnings in folk society; contemporary urban-metropolitan communities, folk urban contrasts, and community types. Prerequisite: SOC 101.

SOC 312. POPULATION AND SOCIETY (4). Population growth and distribution; bearing on current economic, political, and social problems. Prerequisite: SOC 101 or consent of instructor.

SOC 314. POPULAR MUSIC AND SOCIETY (4). Formal organization of music industry and its impact on American society. Each facet of the industry examined: performer, production, marketing, record buying public. Prerequisite: SOC 101.

SOC 315. AMERICAN SOCIETY (4). Models of contemporary American society, dominant value orientations. Prerequisite: SOC 101.

- * **SOC 316. MINORITY GROUPS (4).** Problem and adjustment of minority groups in American society; conditions that favor and hinder acceptance of such minorities as integral elements in national population. Prerequisite: SOC 101.

SOC 317. SOCIAL INEQUALITY (4). Inequalities in distributions of wealth, power, and prestige in societies. Types of systems of inequality; caste, estate, class. Consequences of inequalities for society as whole and for segments of society; educational-occupational opportunities, racial-ethnic relations, social mobility, social change. Prerequisite: SOC 101.

SOC 318. SOCIAL ORGANIZATION (4). Sociological concepts, theories, and models of contemporary complex organizations; impact of social psychological factors on organizational effectiveness, relationship of systems theory to problems of organizational design and behavior. Prerequisite: SOC 101.

SOC 331. CONTEMPORARY CULTURES (4). Culture area(s) emphasized varies with staff and student interest. Area announced in schedule of classes (Africa, Europe, Near East, Native North America, Latin America, Asia, Pacific). May be repeated to 12 hours. Prerequisite: SOC 231 or consent of instructor.

SOC 332. ARCHAEOLOGY (4). Prehistory of man; early cultural development throughout world. Prerequisite: SOC 231.

SOC 334. ANTHROPOLOGY AND CONTEMPORARY HUMAN PROBLEMS (4). Contemporary cultures as collective patterns of living and attempts to create more human way of life. Methods of depicting and interpreting cultural codes of behavior, thought, feeling. Prerequisite: SOC 231 or consent of instructor.

SOC 340. SOCIOLOGY OF CRIMINAL JUSTICE (4). Police and criminal courts, theory, functions, operation, and problems from legal and sociological perspectives. Prerequisite: SOC 101.

SOC 341. JUVENILE DELINQUENCY (4). Analysis and processes of development, treatment, prevention, and control of juvenile delinquency. Prerequisite: SOC 101.

SOC 342. DEVIANCE AND SOCIAL CONTROL (4). History of attempts to define and explain deviant behavior. Social conditions and processes associated with careers of deviants; relationship of deviancy to problems of social control. Prerequisite: SOC 101.

SOC 352. COLLECTIVE BEHAVIOR (4). How new social groupings and order arise from unstructured situations. Behavior of such collectivities as riots, mobs, and crowds. Prerequisite: SOC 101.

- * **SOC 361. THE FAMILY (4).** Traditional and contemporary family types; current similarities and differences of family organization in various cultural environments. Prerequisite: SOC 101.

SOC 369. INTRODUCTORY STATISTICS (4). Data presentation, measures of dispersion, correlation, regression, probability, probability distributions, sampling distributions, hypothesis testing, and analysis of variance. Prerequisite: SOC 101.

SOC 370. INTRODUCTORY METHODOLOGY (4). Research techniques; measurement, sampling, questionnaire, interview schedules, and data processing. Data coding, keypunching, and computer tape files. Prerequisite: SOC 101.

SOC 371. INTRODUCTORY RESEARCH DESIGN (4). Methods and applications of research on social phenomena; problems that arise in social sciences. Prerequisites: SOC 369 and SOC 370.

SOC 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated if topics differ, on approval of adviser.

SOC 403. SOCIOLOGY OF POVERTY (4). Literature on poverty; emphasis on U.S. Prevalence of poverty in affluence. Prerequisite: SOC 101.

SOC 404. SOCIAL GERONTOLOGY (4). Problems of aged in contemporary society. Social gerontology as field of interest of interdisciplinary nature; emphasis on socio-economic approach. Prerequisite: SOC 101.

SOC 413. URBAN SOCIOLOGY (4). Modern cities; development, present state, and problems. Prerequisite: SOC 101.

SOC 415. INDUSTRIAL SOCIOLOGY (4). Social impact of industrialization; interrelationships among industry, business, community, and society. Prerequisite: SOC 101.

SOC 416. POLITICAL SOCIOLOGY (4). Political behavior in society from standpoint of both classical and contemporary sociology. Prerequisite: SOC 101.

- * **SOC 417. SOCIOLOGY OF SPORT (4).** Sociological concepts and theories to investigate sport as social institution and relationship to other social institutions; organizational theory and small group research applied to sport; social psychological aspects of sports. Prerequisite: SOC 101.

- * **SOC 418. SOCIAL CHANGE (4).** Processes of social change and rational direction of society. Prerequisite: SOC 101.

SOC 419. PROBLEMS OF DEVELOPING AREAS. (4). Evaluation of cultural, demographic, institutional, and technological aspects of developing areas. Sociocultural factors affecting change. Prerequisite: SOC 101.

SOC 432. PRIMITIVE RELIGION (4). Factors accounting for universality of religion as well as differences in particulars; varieties of belief about sacred and secular, myths and rituals, change in religious systems. Prerequisite: SOC 101.

- * **SOC 441. CRIMINOLOGY (4).** Nature, causes, treatment, and prevention of crime. Prerequisite: SOC 101.

SOC 442. CORRECTIONS (4). Socio-psychological approach to origins and development of federal, state, and local penal institutions. Prerequisite: SOC 101.

SOC 443. ORGANIZED CRIME (4). Origins of syndicated crime; development, scope, and influence on contemporary American society. Relevant law enforcement efforts, legislation, and court decisions. Prerequisite: SOC 441.

SOC 449. FIELD WORK, CORRECTIONS (4). Field work experience in approved correctional agency. Arrangements (usually one full day per week plus individual conferences and group seminar for two consecutive quarters) must be approved in advance by instructor. Graded S/U. May be repeated once. Prerequisite: senior standing.

SOC 453. ETHNOLOGICAL THEORY (4). Anthropological theories and varying uses of concept of culture in social sciences. Prerequisite: SOC 231 and consent of instructor.

SOC 460. FAMILY AND SEX ROLES (4). Theoretical and empirical literature on family and sex roles; socialization, changing nature of women's and men's roles and prospects for future. Institutional sources of women's and men's roles in other cultures. Prerequisite: SOC 101.

SOC 463. LEISURE, WORK, AND RETIREMENT (4). Sociological analysis of these three aspects of life cycle. Crises in personal life occasioned by each of these stages and by transitions from one stage to another. Prerequisite: SOC 101.

SOC 480. SENIOR SEMINAR (4). On demand. Selected topics in sociology. Recent seminars have included sociology of women, individual and sociology, contemporary social critics, the family, alternatives and critiques. May be repeated. Prerequisites: SOC 101 and consent of Instructor.

SOC 490. READINGS AND RESEARCH (1-4). Supervised independent work in selected areas. Extensive reading of more advanced literature in particular field or carefully planned research. May be repeated.

Spanish (SPAN)

★ ***SPAN 101. ELEMENTARY SPANISH (4) II.** Beginning oral-aural study of language with attention to grammar. Four class periods and scheduled oral practice each week.

★ ***SPAN 102. ELEMENTARY SPANISH (4) I, II, III.** SPAN 101 continued. Four class periods and scheduled oral practice each week. Prerequisite: SPAN 101.

★ ***SPAN 103. ELEMENTARY SPANISH (4) I, II, III.** SPAN 102 continued. Four class periods and scheduled oral practice each week. Prerequisite: SPAN 102.

SPAN 111. HISPANIC CULTURAL SERIES I (4) I, II. Study of Hispanic cultures, combined with development of language awareness essential for reading comprehension. Discussion in English. No laboratory.

SPAN 112. HISPANIC CULTURAL SERIES II (4) I, II, III. Study of Hispanic cultures, combined with development of language awareness essential for reading comprehension. Discussion in English. No laboratory. Prerequisite: SPAN 101 or SPAN 111.

SPAN 113. HISPANIC CULTURAL SERIES III (4) I, II, III. Continuation of SPAN 112. No lab. Prerequisite: SPAN 112 or SPAN 102.

SPAN 141. CONVERSATIONAL SPANISH FOR MEDICAL PERSONNEL (5). Practice in speaking and understanding oral Spanish; essential expressions, questions, and directions needed by medical personnel.

★ ***SPAN 201. INTERMEDIATE SPANISH (4) I, II, III.** Four class periods and scheduled oral practice each week. Prerequisite: SPAN 103 or two years of Spanish in high school.

★ ***SPAN 202. INTERMEDIATE SPANISH (4) I, II, III.** SPAN 201 continued. Four class periods and scheduled oral practice each week. Prerequisite: SPAN 201 or three years of Spanish in high school.

SPAN 211. HISPANIC CULTURAL SERIES IV (4) I, II, III, IV. Further development of reading skill. Reading in masterpieces of Hispanic literature and related cultural texts. Prerequisite: SPAN 113 or SPAN 103 or two years of Spanish in high school.

SPAN 212. HISPANIC CULTURAL SERIES V (4) I, II, III, IV. Continuation of SPAN 211. Prerequisite: SPAN 211 or SPAN 201 or three years of Spanish in high school.

SPAN 221. HISPANIC SONGS (1) I, II, III. Traditional and popular songs from various Hispanic countries, sung in Spanish; emphasis on study of texts and pronunciation. May be repeated to maximum of three hours. Prerequisite or corequisite: SPAN 101, or consent of instructor.

SPAN 231. HISPANIC FOLK DANCING (1) I, II, III. Traditional dances of Spain and Spanish America, especially those of Mexico and Colombia. Learning and performance of dances accompanied by regional and historical background. May be repeated to maximum of three hours. No prerequisite.

SPAN 301. CULTURAL ROOTS OF SPANISH-AMERICANS (4). Literature of expansion of New Spain and Mexico to north; Spanish and Indian cultural heritage; interaction of Indians, whites, and blacks in U.S. Southwest; emergence of new ethnic group, Hispano-Americans; their problems and accomplishments. Prerequisite: one year of Spanish or permission of instructor.

SPAN 351. SPANISH COMPOSITION (3) I, III. Development of writing skill through structured and spontaneous practice. Prerequisite: SPAN 202.

SPAN 352. SPANISH CONVERSATION (3) II. Development of speaking skill; sound, structure, and context. Prerequisite: SPAN 202.

SPAN 354. GRAMMAR REVIEW (3). Review of Spanish grammatical structures; emphasis on morphology and syntax. Prerequisite: SPAN 351 or SPAN 352.

SPAN 360. INTRODUCTION TO LITERARY ANALYSIS (3) I. Concepts of literary analysis and application to selected texts from Peninsular and Latin American literature; prose and poetry. Prerequisite: SPAN 354.

SPAN 367. INTRODUCTION TO SPANISH PENINSULAR LITERATURE (4) II. Outstanding authors, works, and movements of Peninsular literature from Middle Ages to present. Prerequisite: SPAN 360 or SPAN 364, and consent of instructor.

SPAN 368. INTRODUCTION TO SPANISH AMERICAN LITERATURE (4) III. Outstanding authors, works, and movements from time of discovery to present. Prerequisite: SPAN 360 or SPAN 364, and consent of instructor.

SPAN 371. SPANISH CIVILIZATION (4). Political, social, intellectual, artistic life of Spain. Essential background for literature students and those preparing to teach Spanish. Cannot be taken for credit by student who has studied for two or more quarters in Spain. Prerequisite: SPAN 351 or SPAN 352.

SPAN 377. CIVILIZATION OF MEXICO AND CARIBBEAN (3) I. Cultural development of Mexico, Central America, and Caribbean area. Prerequisite: SPAN 351 or SPAN 352.

SPAN 378. CIVILIZATION OF SOUTH AMERICA (3) III. Cultural development of Spanish-speaking South American countries. Prerequisite: SPAN 351 or SPAN 352.

SPAN 380. INTRODUCTION TO SPANISH-ENGLISH BILINGUALISM (3) III. Concepts and facts of bilingual-bicultural programs in U.S. Prerequisite: SPAN 202 or equivalent.

SPAN 382. SPANISH BUSINESS CORRESPONDENCE (3). Spanish for commercial purposes; business letter writing. Prerequisite: SPAN 351 or SPAN 352.

SPAN 431. SPANISH AMERICAN FICTION I (4) alternate years. Origins and purposes of most important works and writers of romanticism, realism, naturalism, modernism, and regionalism. Prerequisite: SPAN 368.

SPAN 432. SPANISH AMERICAN FICTION II (4) alternate years. Trends in contemporary Spanish American novels and short stories; techniques of Borges, Fuentes, Garcia Marquez, others. Prerequisite: SPAN 368.

SPAN 440. MASTERPIECES OF SPANISH MIDDLE AGES AND PRE-RENAISSANCE (4) alternate years. Representative examples of poetry, prose, and drama; *Poema de mio Cid*, *Libro de buen amor*, *La Celestina*. Prerequisite: SPAN 367.

*Credit toward graduation is not allowed for SPAN 101, SPAN 102, SPAN 103, SPAN 201, or SPAN 202 when equivalent credit has been accepted from high school as part of admission credits except that student is allowed to duplicate one unit of high school study with University credit and that student with two years of high school study is allowed to take SPAN 102 and SPAN 103 for credit.

SPAN 441. MASTERPIECES OF SPANISH GOLDEN AGE

(4) alternate years. Selected works by dramatists, poets, and prose writers; Lope de Vega, Quevedo, Cervantes; picaresque novel. Prerequisite: SPAN 367.

SPAN 442. SPANISH LITERATURE OF 19TH CENTURY

(4) alternate years. Outstanding works of 19th century; romanticism, realism, naturalism; prose and poetry. Prerequisite: SPAN 367.

SPAN 444. SPANISH LITERATURE OF 20TH CENTURY

(4) alternate years. Outstanding works from end of generation of 1898 to present, prose and poetry. Prerequisite: SPAN 367.

SPAN 450. ADVANCED GRAMMAR AND COMPOSITION

(4). Grammar and composition intended for teachers of Spanish. Prerequisite: SPAN 351 and SPAN 354 or permission of instructor.

SPAN 455. APPLIED LINGUISTICS (4). Phonological, morphemic, syntactical, semantic aspects of Spanish; application to language learning. Prerequisite: 12 hours beyond SPAN 202 or permission of instructor.

SPAN 463. CAREER SPANISH (3). Skills in translation from Spanish to English and English to Spanish. For students interested in careers in technology, business, research. Prerequisite: SPAN 354.

SPAN 475. GENERATION OF 1898 (3). Literary prose of representative essayists, novelists, poets at turn of century in Spain. Prerequisite: SPAN 367.

SPAN 481. SPANISH-AMERICAN LITERATURE: COLONIAL PERIOD (3). Writers and works from time of discovery through colonial period. Prerequisite: SPAN 368.

SPAN 485. SPANISH-AMERICAN POETRY (3). Modernism and subsequent developments in 20th century; Afro-Caribbean poetry; Dario, Mistral, Neruda. Prerequisite: SPAN 368.

SPAN 486. SPANISH-AMERICAN THEATRE (3). From origins to present; development of La Plata area theatre and modern Mexican theatre. Prerequisite: SPAN 368.

SPAN 488. CONTEMPORARY MEXICAN LITERATURE (3). Outstanding works of 20th century. Prerequisite: SPAN 368.

SPAN 489. HISPANIC STUDIES (3). Intensive study of author, literary school, genre, or selected theme. May be repeated to nine hours if topics are clearly different. Prerequisite: SPAN 367 or SPAN 368.

SPAN 491. READINGS IN HISPANIC LITERATURE (1-4) I, II, III, IV. Independent reading for advanced student who wishes to study particular period or author. Prerequisite: consent of chair of department and instructor.

SPAN 492. THEMES IN SPANISH AMERICAN LITERATURE (3). Study of limited number of specific themes, such as man's relation with nature or problems of urban poor, as depicted in outstanding prose and poetry from different regions and different periods in Spanish America. Prerequisite: SPAN 368.

Special Education (EDSE)

(See education, special)

SPEECH COMMUNICATION, SCHOOL OF**Communication Disorders (CDIS)**

CDIS 121. PERSONAL REMEDIATION OF COMMUNICATION DISORDERS (2) I, II, III, IV. Students having speech, language, or hearing problem requiring remedial treatment urged to take advantage of services offered by speech and hearing clinic. No credit toward graduation. Graded S/U. Additional fee: \$10.

CDIS 122. SPEECH IMPROVEMENT (2) I, II, III. Clinical course for student who has minor speech problems and is interested in personal speech improvement. No credit toward graduation. Graded S/U. Additional fee: \$10.

★ **CDIS 223. INTRODUCTION TO COMMUNICATION DISORDERS** (4) I, II, III, IV. Normal speech and language development; description and etiology of various communication disorders, i.e., articulation, voice, stuttering, etc.

CDIS 226. PHONETICS (4) I, II, III. Sound of spoken English, their production and recognition. Applications to techniques in speech pathology and habilitation of the hearing handicapped. Prerequisite: CDIS 223 or CDIS 423.

CDIS 324. INTRODUCTION TO HEARING SCIENCE (4) I, III. Physical parameters of hearing. Psychoacoustics and anatomy and physiology of hearing mechanism. Prerequisites: CDIS 223 and CDIS 226.

CDIS 325. NEUROGENIC DISORDERS OF COMMUNICATION (4) I, II. Nature of selected neurologically based disorders of communication; approaches to diagnosis and treatment. Prerequisites: CDIS 331 and CDIS 422; non-majors must also obtain consent of instructor.

CDIS 328. INTRODUCTION TO AUDIOLOGY (4) I, II. Audiometric pure-tone testing methods, otological pathologies and associated hearing problems, and hearing conservation programs. Prerequisite: CDIS 324.

CDIS 330. VOICE DISORDERS AND CLEFT PALATE (4) I, II. Functional and organic aspects of voice disorders and cleft palate in children and adults; etiologies, diagnoses, and therapy. Prerequisites: CDIS 223 and CDIS 226 and CDIS 422.

CDIS 331. ARTICULATION DEVELOPMENT AND DISORDERS (4) I, II, III. Development, diagnoses, and therapeutic techniques for problems of articulation. Clinical observation required. Prerequisites: CDIS 223 and CDIS 226.

CDIS 332. STUTTERING (4) I. Definition, description, development, and maintenance of stuttering; approaches to diagnosis and treatment in children and adults. Prerequisites: junior standing and PSYC 305 or consent of instructor.

CDIS 333. LANGUAGE ACQUISITION, ASSESSMENT, AND REMEDIATION (4) I, II, III. Normal language acquisition patterns in children. Mechanisms of acquisition, language assessment, and remediation programs and techniques. Prerequisites: CDIS 331 and ENG 380, or A&S 300.

CDIS 391. PREPRACTICUM IN COMMUNICATION DISORDERS (3) I, II, III, IV. Introduction to clinical setting; student will be involved in planning, observing, and assisting in therapy. Two lectures, two observation periods per week. Prerequisites: junior standing and consent of instructor. C/F hrs: 15.

CDIS 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format. Requirements are usually completed within time format. May be repeated if topics differ, on approval of adviser.

CDIS 422. ANATOMY AND PHYSIOLOGY OF SPEECH MECHANISM (4) I, III. Neuromuscular system involved in breathing, phonation, and articulation and physiological aspects of speech production. Prerequisites: CDIS 223 and CDIS 226.

CDIS 423. INTRODUCTION TO COMMUNICATION DISORDERS FOR THE CLASSROOM TEACHER (4) I, II, III. Identification, etiologies, and characteristics of communication disorders. Suggestions for classroom management of communication disorders. Not open to student with credit for CDIS 223.

CDIS 424. DIAGNOSIS AND ASSESSMENT OF COMMUNICATION DISORDERS (5) I, II, III. Clinical techniques in appraisal and diagnosis of communication disorders in children and adults. Practical experience in evaluation and reporting. Prerequisites: CDIS 325 and CDIS 328 and CDIS 330 and CDIS 331 and CDIS 332 and CDIS 333. C/F hrs: 10.

CDIS 426. FIRST PRACTICUM IN COMMUNICATION DISORDERS (3) I, II, III, IV. Supervised clinical experience with children and adults. Two lectures and two clinical periods per week. Prerequisites: CDIS 326 and CDIS 424 and 2.5 GPA in CDIS courses and 40 approved observation hours and consent of instructor. C/F hrs: 30.

CDIS 427. SECOND PRACTICUM IN COMMUNICATION DISORDERS (3) I, II, III, IV. Supervised clinical experience with children and adults. Two lectures and two or more clinical periods per week. Prerequisites: CDIS 426 and 2.5 GPA in CDIS courses and consent of instructor. C/F hrs: 15.

CDIS 433. INTRODUCTION TO REHABILITATIVE AUDIOLOGY (4) II, III. Rehabilitation of hearing-impaired. Speech-reading, auditory training, and amplification systems. Prerequisite: CDIS 328.

CDIS 434. TEACHING BEGINNING SPEECH TO DEAF (3) II. Speech development of deaf. Analysis of auditory, tactile, proprioceptive, and visual aspects of speech sounds. Relative difficulty of producing speech sounds and teaching them. Prerequisites: EDSE 461 and EDSE 464. C/F hrs: 10.

CDIS 435. ORGANIZATION AND MANAGEMENT OF SCHOOL SPEECH, LANGUAGE, AND HEARING PROGRAM (4) I, II, III. Planning and implementing programs in schools for speech-language and hearing handicapped pupils. Clinician's roles and responsibilities. Course taken quarter prior to student teaching. Prerequisite: all CDIS courses. Three one-hour lecture-recitations and one two-hour laboratory. C/F hrs: 20.

CDIS 436. TEACHING ADVANCED SPEECH TO DEAF (3) III. Review and comparison of methods in teaching speech to deaf. Common problems in speech classes for deaf. Speech sounds and their maintenance and correction as integral part of academic curriculum. Prerequisite: CDIS 434. C/F hrs: 10.

CDIS 490. INDEPENDENT STUDY IN COMMUNICATION DISORDERS (1-5) I, II, III. For advanced student who wishes to do intensive study in pathology or audiology independently, or in conjunction with courses regularly offered. May be repeated. Prerequisite: consent of program chair.

Interpersonal and Public Communication (IPCO)

IPCO 110. INTERCOLLEGIATE FORENSIC ACTIVITIES (1) I, II. For student who wishes to participate in intercollegiate debate, discussion, oratory, extemporaneous speaking, or other individual events. May be repeated to four hours.

★ **IPCO 203. SMALL GROUP COMMUNICATION** (4) I, II, III. Social interaction in small groups; problem solving processes.

IPCO 204. ARGUMENTATION: INQUIRY AND ADVOCACY (4) I, II, III. Principles of argumentation; analysis, evidence, reasoning, and refutation.

★ **IPCO 205. PUBLIC SPEAKING** (4) I, II, III. Principles of public speaking and speech composition in professional, business, and educational settings; use of audio-visual material.

IPCO 303. PERSUASIVE COMMUNICATION (4) I, II, III. Theories and concepts of persuasive communication; attitude change, audience analysis, and strategies of persuasion.

★ **IPCO 304. LEADERSHIP IN GROUP COMMUNICATION** (4) II. Conceptions, methods, and techniques of leadership related to group communication process. Prerequisite: IPCO 203.

★ **IPCO 305. HUMAN COMMUNICATION** (4) I, II, III, IV. Process by which senders and receivers of messages interact in given social contexts; focus on core of specific theories which derive from varying perspectives on speech communication process.

★ **IPCO 306. INTERPERSONAL COMMUNICATION** (4) I, II, III, IV. Purposive two-party communication, reduction of defensive climates as means of facilitating effective communication. Practical experiences in information seeking, persuasive, and personal interviews.

IPCO 307. SPEECH COMMUNICATION IN ORGANIZATIONS (4) I, II, III. Message initiation, diffusion, and reception in organizational setting. Function and conduct of meetings, including parliamentary procedure, and relationship to organizational setting.

IPCO 310. INTERCOLLEGIATE FORENSIC ACTIVITIES (1) I, II. Similar to IPCO 110, but for juniors or seniors. May be repeated to four hours.

IPCO 311. CONTEMPORARY MINORITY VOICES (4) III. Analysis of contemporary minority communication: strategies, nature of minority audiences, and discussion of political philosophies of various spokesmen for minority affairs.

IPCO 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format. May be repeated if topics differ, on approval of adviser.

IPCO 402. AMERICAN PUBLIC ADDRESS (4) III. Critical studies of significant public address events in American history.

IPCO 405. SEMANTICS AND SPEECH COMMUNICATION (4) III. Relationships between symbols, images, and reality as reflected in speech communication behavior.

IPCO 406. TOPICS IN INTERPERSONAL AND PUBLIC COMMUNICATION (4) I, II, III. Selected topics or subject areas within field of communication, such as male-female communication in marriage, legal speaking, communication with elderly. May be repeated.

IPCO 410. COMMUNICATION AND AGING (4) II. Communication problems associated with the aging process; emphasis on methods of aiding the elderly communicate effectively in social situations and assert themselves under a variety of life conditions.

IPCO 489. COMMUNICATION INTERNSHIP (1-16) I, II, III, IV. Supervised field experience in communication. Contract-based study of communication principles and practices as intern in public or commercial agency. Student must be recommended by adviser and approved by director of IPCO internship program. Open only to students in Bachelor of Arts in Communication degree program.

IPCO 490. PROBLEMS IN INTERPERSONAL AND PUBLIC COMMUNICATION (1-5) I, II, III. For advanced student who wishes to do intensive study in rhetoric, public address, or communication studies, independently or in conjunction with courses regularly offered. May be repeated. Prerequisite: consent of school.

Radio-Television-Film (RTVF)

RTVF 255. INTRODUCTION TO BROADCASTING (4) III. Survey of broadcasting industry in America. No prerequisites. Intended for majors.

★ **RTVF 260. RADIO AND TELEVISION BROADCASTING** (4) I, II, III. Functions and effects of electronic media for individual and society.

RTVF 261. UNDERSTANDING MOVIES (4) I, III. Film as art. Essential elements of film; editing, camera work, sound and composition explored in some classic motion pictures. Various approaches to looking at movies and writing about them.

★ **RTVF 262. INTRODUCTION TO BROADCAST ANNOUNCING** (4) I, II, III. Styles and basic principles and practices of announcing; articulation, vocabulary, and pronunciation.

RTVF 263. INTRODUCTION TO TELEVISION PROGRAM PRODUCTION (4) I, II, III. Basic theory for use of studio facilities in program production situations; basic experience in operating cameras, film chains, microphones, film inserts and music; theory and practice of producing and directing programs. Laboratory hours.

RTVF 264. 8MM FILM MAKING (4) I, II, III. Basic techniques of 8mm motion picture photography. Understanding of lens, film, and camera characteristics; lighting, camera operation, and editing. Student furnishes camera and some materials.

RTVF 360. PROCEDURES OF AUDIENCE MEASUREMENT (4) II. Audience rating systems, significance and design. Aspects of broadcasting audience analysis; questionnaire design, sampling strategies, computer data analysis and presentation of results.

RTVF 361. RADIO WRITING AND PRODUCTION (4) I, II, III. Theories and processes of writing for radio; opportunities for specialization in selected program types; commercials, interviews and documentaries, special events, and sports. Laboratory hours. Prerequisite: RTVF 262 or equivalent experience.

RTVF 364. PRODUCING AND DIRECTING FOR TELEVISION (4) I, II, III. Theories and processes of producing, writing, and directing television program including film and portable video elements; opportunities for specialization in selected program types—news and public affairs, drama, documentary, variety, instructional. Laboratory hours. Prerequisite: RTVF 263 or equivalent experience and permission of RTVF adviser.

RTVF 365. BROADCAST HISTORY (4) II. Current U.S. broadcasting with view of antecedents in regulations, economics, programs, audiences, stations, networks, technology, and employment. Prerequisite: eight hours of RTVF.

RTVF 366. PROCESSES AND EFFECTS OF MASS COMMUNICATION (4) III. Mass communication process and its effects, including topic legitimization, gatekeeping, social impact.

RTVF 368. RADIO WORKSHOP (2) I, II, III. Development of program ideas through all stages of planning, writing, directing, and selling. Individual program projects for possible use on WBGU or WFAL. Students working for WBGU or WFAL may receive up to four hours credit. May be repeated to six hours. Prerequisite: RTVF 262.

RTVF 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated if topics differ, on approval of adviser.

RTVF 460. FREEDOM AND RESPONSIBILITY IN BROADCASTING (4) III. Proper balance between broadcaster's freedom of speech and accountability to public in free society; regulation, self-regulation and social responsibility; role of Federal Communication Commission.

RTVF 464. 16MM FILM MAKING (4) I, II. Concepts, theories, and mechanics of film production; applications of cinema to television news, documentaries, informational presentations, and feature and art film production. Lectures and laboratory. Prerequisites: RTVF 264 or JOUR 306 or VCT 282; and permission of instructor.

RTVF 465. PATTERNS OF PROGRAMMING IN RADIO AND TELEVISION (4) I. Scheduling of broadcast programs; theories and practices in creating program schedules for radio/TV stations; audience research and influences on programming decisions.

RTVF 466. HISTORY AND CRITICISM OF FILM (4) II. Historical development of theatrical, documentary, and avant-garde films. Function, content, and style of film criticism.

RTVF 468. TELEVISION WORKSHOP (4) I, II, III. Production of dramatic and public affairs television programs. Writing, producing, and directing emphasized. May be repeated once. Prerequisite: RTVF 263.

RTVF 469. SEMINAR: CONTEMPORARY ASPECTS OF BROADCASTING AND FILM (4). On demand. Investigation and analysis of areas of radio, television, and film. Various topics of current concern; public and instructional broadcasting, audience, CATV, political broadcasting, censorship and freedom in film, film movements and styles. May be repeated with permission of adviser to eight hours.

RTVF 489. INTERNSHIP IN BROADCASTING AND FILM (1-9) I, II, III, IV. Supervised field experience in commercial or public broadcasting. Student must arrange for experience with approval of intern supervisor in advance of registration. May be repeated up to 16 hours. Limited to RTVF majors.

RTVF 490. PROBLEMS IN RADIO-TV-FILM (1-5). I, II, III. For advanced student who wishes to do intensive study in radio, television, or film independently, or in conjunction with courses regularly offered. May be repeated. Prerequisite: consent of school.

Speech (SPCH)

★ **SPCH 102. PRINCIPLES OF SPEECH COMMUNICATION** (4) I, II, III. Basic principles of interpersonal, small-group, and public communication; field of speech communication, with attention to individual needs.

SPCH 351. ADMINISTRATION OF COCURRICULAR SPEECH PROGRAMS (4) III. Required of all speech majors and minors in College of Education. Techniques for handling secondary cocurricular speech programs such as debate, forensics, and theatre. Field experiences required. Prerequisites for majors: EDCI 372 and IPCO 204 and THEA 241 and THEA 243 and THEA 341.

Theatre (THEA)

★ **THEA 141. THE THEATRE EXPERIENCE** (4) I, II, III. Art of theatre; heritage and contemporary values as humanistic discipline; importance as cultural experience; opportunity for some involvement in theatre experience. For nonmajors only. Not open to those with credit for THEA 145.

THEA 145. PRINCIPLES OF THEATRE ART (4) I, II, III. Theatre as art form presented from historical, literary, and production points of view. Only for speech communication majors wishing to receive BA or BAC degrees. Not open to students with credit for THEA 141.

★ **THEA 146. DRAMATIC PRODUCTION** (1-2) I, II, III, IV. Laboratory course for student who participates as performer or technician in University Theatre productions. May be repeated to four hours. Prerequisite: consent of school (theatre program). Graded S/U only.

- ★ **THEA 202. ORAL INTERPRETATION** (4) I, II, III. Logical and aesthetic meaning in drama, prose, and poetry for oral performance; selection of materials for programs; and vocal and physical techniques of performance.
- ★ **THEA 241. PRINCIPLES OF ACTING** (4) I, II, III. Basic acting techniques; stage movement and speech; principles of imaginative, emotional, and sensory responsiveness. Three two-hour meetings per week.
- ★ **THEA 243. STAGECRAFT** (4) I, II, III. Theories and techniques of designing, building, and painting stage settings; organization and operation of production crews. Laboratory hours arranged.
- THEA 302. ADVANCED ORAL INTERPRETATION** (5) I, III. Analysis and communication of logical and aesthetic meaning as found in drama and other significant literature. Experimentation with various forms of oral interpretation such as reader's theatre, chorale reading. Emphasis on advanced, individualized work. Prerequisite: THEA 202.
- THEA 340. CREATIVE DRAMATICS** (4) I, II, III. Objectives, principles, methods, and laboratory experience in guiding informal dramatics for preschool, elementary, and secondary school children, as well as for recreation programs. Creative approach to rhythmic movement, pantomime, dramatic play, language development, storytelling, and story dramatization.
- THEA 341. DIRECTING** (4) I, II, III. Theory and technique of play direction. Laboratory hours arranged. Prerequisites: THEA 141 or THEA 145, and THEA 241 and THEA 243 or consent of instructor.
- THEA 342. ADVANCED DIRECTING** (4) II. THEA 341 continued. Each student directs at least one short play or series of short scenes. Prerequisite: THEA 341. Laboratory hours arranged.
- THEA 343. STAGE LIGHTING** (3) I. Theories and techniques of lighting stage productions; lighting instruments and equipment. Three hours lecture, one hour laboratory per week.
- THEA 344. INTERMEDIATE ACTING** (4) II, III. Study and experimentation in preparation of roles. Three two-hour meetings per week. Prerequisite: THEA 241 or consent of instructor.
- THEA 345. ADVANCED ACTING** (4). Extensive work in speech and movement; individual acting problems through scene work. Three two-hour meetings per week. Prerequisite: THEA 241 and THEA 344 or consent of instructor.
- ★ **THEA 346. DRAMATIC PRODUCTION** (1-2) I, II, III, IV. Same as THEA 146 except for juniors and seniors. May be repeated to four hours. Prerequisite: consent of school (theatre program). Graded S/U only.
- THEA 347. MAJOR PERIODS OF THEATRICAL HISTORY** (3) II. History of theatrical production (stage and auditorium architecture, machinery, scenery, lighting, acting, and costuming) in selected periods from primitive times to present.
- THEA 348. LITERATURE OF THEATRE** (3) I. Major dramas, dramatists, dramatic criticism, and dramatic theory from Greeks to present.
- THEA 349. THEATRICAL COSTUMING** (4) III. Basic principles of costuming for the stage; responsibilities of costumer, development of design concepts; use of historic, stylistic, and fantasy elements.
- THEA 350. DRAMA OF RACIAL CONFLICT** (4) I, III. Study of plays which project racial conflict as major theme; their styles, dramatic purposes, and socio-political implications; through readings, performances and discussion.

THEA 352. STAGING THE MUSICAL (4) I alternate years. Theory and techniques; individual problems of staging dance, musical, and nonmusical scenes. Laboratory hours arranged.

THEA 353. HISTORY OF MUSICAL THEATRE (4) III alternate years. Major composers, librettists, directors, and choreographers. Relationship between script, score, and production.

THEA 395. WORKSHOP ON CURRENT TOPICS (1-5). On demand. Intensive educational experience on selected topics. Typically, an all-day or similar concentrated time format. Requirements usually completed within time format. May be repeated if topics differ, on approval of adviser.

THEA 443. PLAYWRITING (4) II. Writer's workshop involving creation of original play for stage or television. Discussion of process of playwriting. May be repeated.

THEA 444. FUNDAMENTALS OF SCENE DESIGN (3) I. Designing for stage; dramatic action of script as organic element in design; effects of line, color, and mass on setting, decor, and lighting in enhancing action. Prerequisite: THEA 243 or consent of instructor.

THEA 446. SUMMER THEATRE PERFORMANCE (1-9) IV. Intensive laboratory work in study, preparation, and development of roles. Particular problems of performance in summer theatre. Prerequisite: consent of school.

THEA 447. THEATRE STYLES (3). Selected period and modern theatrical styles. Historic, philosophic, and aesthetic bases of each style; relationship of each style to other art forms; and implications of each style for contemporary theatre.

THEA 448. SUMMER THEATRE PRODUCTION (1-9) IV. Intensive laboratory work in scenery construction and painting, stage lighting, organization, and operation of backstage crews and technical theatre. Particular problems of technical production in summer theatre. Prerequisite: permission of school.

THEA 449. CONTEMPORARY ISSUES IN THEATRE (3) I. Seminar for advanced students. Specific topics vary and depend on current trends in world theatre as identified by students and faculty members. Prerequisite: consent of instructor.

THEA 450. SUMMER THEATRE MANAGEMENT (1-9) IV. Intensive laboratory work in various aspects of theatre management: publicity, box office, house management, public relations. Particular problems of management of summer theatre. Prerequisite: consent of school.

THEA 489. THEATRE INTERNSHIP (1-16) I, II, III, IV. Supervised field experience in theatre. Contract-based study of theatre principles as intern in public or theatre commercial company. Student must be recommended by adviser and approved by director of theatre program unit. Open only to students in Bachelor of Arts in Communication degree program.

THEA 490. PROBLEMS IN THEATRE (1-5) I, II, III. For advanced student who wishes to do intensive study in theatre, independently, or in conjunction with courses regularly offered. May be repeated. Prerequisite: consent of school (theatre program).

Sports Studies and Management (SSM)

(See health, physical education, and recreation)

TECHNOLOGY, SCHOOL OF

Aerotechnology (AERT)

AERT 341. FLIGHT INSTRUCTION I (2) I, II, III, IV.

Beginning course for students desiring private pilot's license. Theory of flight, aircraft systems, aeronautical chart interpretation, communication procedures, weight and balance, airports, meteorology, Federal Aviation Regulations, air traffic control.

AERT 342. FLIGHT INSTRUCTION II (2) I, II, III, IV.

Continuation of AERT 341. Radio navigation, Airman's Information Manual, flight computer, medical factors, cross country flying, and FAA examinations. Upon completion of course students eligible to take FAA written examination for private pilot. Prerequisite: AERT 341.

AERT 343. FLIGHT INSTRUCTION III (2) I, II, III, IV.

Completion of work for private pilot certificate. Familiarization with airplane and its control in all flight situations and maneuvers necessary for solo flight; basic instrument and cross country flying experience. Includes 15 hours of solo and 20 hours of dual instruction. Private pilot's license must be obtained to receive credit for course. Additional fees arranged with flight director.

AERT 344. COMMERCIAL FLIGHT INSTRUCTION I (3).

On demand. Advanced theory and principles of commercial aviation requirements; preparation for FAA written examination for Commercial Pilot Certificate.

AERT 345. COMMERCIAL FLIGHT INSTRUCTION II (3).

On demand. Continuation of AERT 344. Solo and dual aerial instruction necessary for qualification for FAA Commercial Pilot Certificate. Additional fees arranged with flight instructor.

AERT 401. FLIGHT INSTRUCTOR (Airplane) (3). On demand. Prepares experienced pilot for FAA Flight Instructor Certificate (Airplane); approximately 25 hours of dual flight instruction and 40 hours of ground school. Credit dependent on student receiving FAA Certified Flight Instructor rating. Prerequisite: Commercial Pilot's Certificate.

AERT 402. INSTRUMENT GROUND SCHOOL (4). On demand. Ground school instruction required by FAA as preparation for FAA written examination for instrument rating.

AERT 403. INSTRUMENT FLIGHT INSTRUCTION (2). On demand. Instrument flight instruction as required by FAA as preparation for instrument rating.

AERT 490. PROBLEMS IN AEROTECHNOLOGY (1-5). On demand. For advanced students wanting to conduct intensive study of selected problems in aerotechnology. Prerequisite: consent of school.

Construction Technology (CONS)

CONS 235. CONSTRUCTION TECHNOLOGY (4) I, II, III, IV odd numbered years. Construction industry; residential, commercial, industrial, and civil areas. Codes; plans, specifications; construction methods and materials; methods of project control.

CONS 306. LIGHT BUILDING CONSTRUCTION I (4) I, II, IV. Methods and procedures for construction of residential and light commercial buildings; prefabricated and assembly-line housing, building codes, and FHA specifications. Prerequisites: CONS 235 and DESN 301.

CONS 307. LAND PLANNING AND DEVELOPMENT (4) I, II, IV even numbered years. Land planning, zoning, and community and sub-division design; sub-surface utility systems, transportation systems, and other environmental considerations. Prerequisite: CONS 235.

CONS 318. SURVEYING PRACTICE (5) III, IV. On demand. Methods and procedures; field and office procedures for recording and reduction of data. Surveying applications to construction. Prerequisite: competency with high school algebra and trigonometry.

CONS 335. COMMERCIAL AND INDUSTRIAL CONSTRUCTION (4) I, II, IV odd numbered years. Basic design considerations and methods and materials used in construction of commercial and industrial complexes. Foundations and sitework; soils and concrete. Prerequisites: CONS 235 and DESN 301.

CONS 337. HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (4) II. Mechanical systems that provide heating, ventilation, air conditioning cooling for building and production processes. Experience with conventional and solar mechanical systems; determining losses, make-up, system sizing, control. Methods, materials, and problems encountered in installing mechanical systems stressed. Prerequisite: TECH 191 or CONS 235 or permission of instructor.

CONS 406. LIGHT BUILDING CONSTRUCTION II (4) II, IV even numbered years. Advanced course in building construction; necessary materials, methods, and devices used in interior finishing of both residential and commercial facilities. Prerequisite: CONS 306 or CONS 335 or consent of instructor.

CONS 407. CIVIL CONSTRUCTION (4) III, IV even numbered years. Materials and methods of civil construction; its needs, planning, and development through completion of specific projects. Prerequisite: CONS 235.

CONS 425. CONSTRUCTION TECHNOLOGY (4) I, II, III, IV odd numbered years. Introduction to construction industry; residential, commercial, industrial and civil areas; codes; plans; specifications; construction methods and materials; elements of project control. For transfer students only. Obtain permission of department.

CONS 435. COMMERCIAL AND INDUSTRIAL CONSTRUCTION II (4) II, IV odd numbered years. Advanced course in basic design considerations and methods and materials used in construction of reinforced concrete and steel frame buildings. Prerequisite: CONS 335.

CONS 437. CONSTRUCTION EQUIPMENT (4) I, IV odd numbered years. Equipment fundamentals as related to construction operations. Ownership and operating costs and productivity of major construction equipment; frequent downtime items. Three one-hour lectures and one three-hour laboratory. Prerequisites: TECH 191 and CONS 235.

CONS 439. ESTIMATING AND COST CONTROL (4) II, IV. On demand. Designed to give basic tools needed to take off and price typical construction project. Final bid document including all materials, labor, equipment and overhead costs, and profit margin prepared for actual project. Three one-hour lectures and one three-hour laboratory. Prerequisite: CONS 335.

CONS 440. CONSTRUCTION CONTRACTING (4) I, IV. On demand. Project scheduling and control, bidding theories, safety in construction industry, construction contracts. Two two-hour lectures. Prerequisite: 20 hours of 300/400 level courses in CONS technology and senior standing.

CONS 490. PROBLEMS IN CONSTRUCTION TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in construction technology. Prerequisite: consent of school.

Design Technology (DESN)

- * **DESN 104. DESIGN AND ENGINEERING GRAPHICS I** (4) I, II, III, IV. Design as process and engineering graphics as vehicle to communicate problem solutions. Design analysis, sketching, and instrument drawing applied to design problems involving industry and technology. Two one-hour lectures and one two-hour and one three-hour laboratory. (At Firelands, two hours of lecture, six hours of laboratory.)
- † **DESN 201. MECHANICAL DESIGN I** (4). Design and selection of mechanical elements, fasteners, power transmission devices, hydraulic systems, and tools and dies. Standard manuals, commercial catalogs, and technical publications utilized. Two hours of lecture, six hours of laboratory. Prerequisite: PHYS 214.
- † **DESN 202. MECHANICAL DESIGN II** (4). Continuation of DESN 201. Consideration of economy, loading conditions, stresses, deformation, fits and finishes in design. Two hours of lecture, six hours of laboratory. Prerequisite: PHYS 214.
- * **DESN 204. DESIGN AND ENGINEERING GRAPHICS II** (5) II, IV odd numbered years. Application of design analysis and engineering graphics to problems dealing with mechanical/product design. Production of complete sets of working drawings to communicate problem solutions to those involved with production of product or system. Jig and fixture, tool and die design. Developments and schematic graphic techniques. Two one-hour lectures and two three-hour laboratories. (At Firelands, three hours of lecture, six hours of laboratory.) Prerequisite: DESN 104.
- † **DESN 205. TOOL AND DIE DESIGN** (4). Importance and economies of tool design for mass production. Major areas include layout and design of cutting tools, gauges, simple jigs, fixtures, and dies. Two hours of lecture, six hours of laboratory. Prerequisite: DESN 204.
- † **DESN 206. JIG AND FIXTURE DESIGN** (2). Continued application of principles of jig and fixture design, including drilling, milling, welding, and inspection fixtures; standard drill jigs, and economies of jigs and fixtures. One hour of lecture, three hours of laboratory. Prerequisite: DESN 204.
- † **DESN 210. FLUID SYSTEMS** (3). Basic components of hydraulic and pneumatic systems as used for industrial power control and transmission. Two hours of lecture, three hours of laboratory. Prerequisite: PHYS 214 or permission of instructor.
- * **DESN 243. STRENGTH OF MATERIALS** (4) I, III, IV. On demand. Simple and combined stresses, deformation, shear, torsion, and deflection of machine parts and structural members. Basic foundation in vector algebra recommended. Three lecture-recitations and one three-hour laboratory. (At Firelands, prerequisite is PHYS 214.)
- DESN 301. ARCHITECTURAL GRAPHICS** (5) I, II, III, IV. Architectural design and construction; development and use of elevation, plan, detail, and perspective drawings in planning and designing residential, business, and industrial structures. Two one-hour lectures and two three-hour laboratories. Prerequisite: DESN 104 or permission of instructor.
- DESN 304. ENGINEERING GRAPHICS—DESIGN I** (4) I even numbered years, IV odd numbered years. Engineering graphics principles applied in design of structures, machines, production systems. Standard manuals and commercial catalogs used. Prerequisite: permission of instructor.
- DESN 305. TECHNICAL ILLUSTRATION** (4) III; II, IV even numbered years. Technical illustration for design presentation, assembly, repair, and advertising. Variety of equipment, materials, and techniques to accomplish various industrial purposes. Two one-hour lectures and one two-hour and one three-hour laboratory. Prerequisite: DESN 104 or permission of instructor.

DESN 314. DESIGN AND ENGINEERING GRAPHICS I (4) I, II, III, IV. Design as process and engineering graphics as vehicle to communicate problem solutions. Design analysis, sketching, and instrument drawing applied to design problems involving industry and technology. Two one-hour lectures and one two-hour and one three-hour laboratory. For transfer students only. Obtain permission of department.

DESN 336. STRUCTURAL DESIGN AND CONSTRUCTION (5) I even numbered years, IV on demand. Designed to give necessary tools to understand and deal with basic building design problems as viewed by constructor. Steel, concrete, and timber problems and projects completed by students. One three-hour lecture, one two-hour and one three-hour laboratory. Prerequisite: DESN 243 or understanding of basic mathematics and engineering mechanics.

DESN 404. COMPUTER GRAPHICS IN DESIGN (4) II even numbered years, IV on demand. Study and application of computer graphics systems. Use of interactive methods for design purposes with plotted or video output. Programming subroutines for graphs, two and three dimensional views, and surface generation.

DESN 434. DESIGN AND ENGINEERING GRAPHICS II (5) II, IV odd numbered years. Application of design analysis and engineering graphics to problems dealing with mechanical-product design. Producing complete sets of working drawings to communicate problem solutions to those involved with production of product or system. Jig and fixture, tool and die design. Developments and schematic graphic techniques. Two one-hour lectures and two three-hour laboratories. Prerequisite: DESN 104. For transfer students only. Obtain permission of department.

DESN 436. PLANNING AND DESIGN OF INDUSTRIAL FACILITIES (4) II even numbered years, IV on demand. Planning, estimating, design, and modeling of industrial facilities with consideration of management, personnel, production, aesthetics, and environment.

DESN 450. ARCHITECTURAL GRAPHICS (4) I, II even numbered years. Man-made environment considered through advanced problems in architecture and related graphics of presentation.

DESN 452. DESIGN IN INDUSTRY (4) III, IV odd numbered years. Systems approach applied to solution of one and two dimensional product design problems; emphasis on feasibility in production and use.

DESN 455. ENGINEERING GRAPHICS (4) II even numbered years, IV odd numbered years. Problems in engineering design in such areas as human factors, value engineering, CPM/PERT which require advanced engineering graphics for solution.

DESN 490. PROBLEMS IN DESIGN TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in design technology. Prerequisite: consent of school.

Electronic Technology (ET)

- † **ET 147. ELECTRICITY** (5). Electron theory; DC and AC electrical units and concepts; circuit components; RLC circuits; power circuit concepts; 3 phase electric power; introduction to use of electrical instruments. Three hours of lecture, six hours of laboratory. Prerequisite: MATH 110 or equivalent.
- † **ET 148. ELECTRONICS** (5). Branch of technology which deals with use of electronic devices to process, store, and transmit information.
- † **ET 241. ELECTRICITY AND ELECTRONICS** (3). Topics in electricity and electronics of interest to students majoring in related technical areas; basic electricity, communication, power systems, and instrumentation. Two hours of lecture, three hours of laboratory. Prerequisite: AMS 111.

† **ET 244. COMMUNICATION CIRCUITS** (5). Fundamental communication circuits and amplifiers; amplifier design, components and applications, oscillators, communication components, and principles of receivers and transmitters. Four hours of lecture, three hours of laboratory. Prerequisite: ET 245 or permission of instructor.

† **ET 245. COMMUNICATIONS SYSTEMS** (3). Applications of principles of communications circuits to large and complex systems. Techniques of transmission and radiation of electromagnetic energy applied to pulse, television, and microwave systems. Two hours of lecture, three hours of laboratory. Prerequisite: AMS 111 or equivalent.

† **ET 247. ELECTRICAL MEASUREMENTS AND INSTRUMENTATION** (5). Electrical measurement and instrumentation devices, transducers, and elements; principles underlying their design, use, and relationships. Three hours of lecture, six hours of laboratory. Prerequisite: ET 148.

† **ET 248. INDUSTRIAL EQUIPMENT AND CONTROLS** (5). Automation and industrial control principles; discussion and application of typical devices such as time control switches, motor controls, servomechanisms, photo-electric switches. Three hours of lecture, six hours of laboratory. Prerequisite: ET 247 or permission of instructor.

† **ET 249. DIGITAL ELECTRONIC COMPONENTS AND SYSTEMS** (4). Basic digital system logic analysis and synthesis techniques; number systems and codes; Boolean algebra and circuit minimization techniques. Characteristics of modern digital integrated circuit components (TTL, CMOS, 1²L, ECL). Four hours of lecture and three hours of laboratory.

† **ET 288. FIELD EXPERIENCE** (2). Individual observation and participation at various levels and in representative programs in career and technology education. Graded S/U only.

† **ET 289. COOPERATIVE INTERNSHIP—BASIC.** (4). Work and study in business, industry, service, or government agency in department-approved 12-week full-time position related to student's intended area of concentration. Prerequisite: consent of department.

† **ET 290. EXPERIMENTAL STUDIES IN INDUSTRIAL EDUCATION AND TECHNOLOGY** (1-4). Experimental study projects, seminars, and workshops dealing with topics in industrial education and technology.

ET 291. ENERGY, POWER, INSTRUMENTATION AND CONTROL-CYBERNETICS (4) I, II, III, IV odd numbered years. Cybernetics; systems logic, instruments, sensors, control elements, and process regulation. Two one-hour lectures and two two-hour laboratories. Prerequisite: TECH 191.

ET 347. ELECTRICITY (5) I, IV even numbered years. Concepts of alternating and direct current including circuits. Circuit components, power generation, meters, and test equipment. One two-hour lecture and two three-hour laboratories. Prerequisite: TECH 191 or permission of instructor.

ET 348. ELECTRONICS (5) II odd numbered years, IV even numbered years. Electronic circuits both analog and digital plus semiconductors. Application of power supplies, amplifiers, oscillator, and digital gates to communication instrumentation and process control. Three-hour lecture and four-hour laboratories. Prerequisite: ET 347 or equivalent.

ET 357. ELECTRICAL POWER TRANSMISSION (4) II odd numbered years, IV even numbered years. Power converters, polyphase distribution system including conductors, transformers, voltage regulation, protection, control, phasing, and metering. Electrical codes, methods, and materials used in electric installation; problems in electrical construction work. Three one-hour

lectures, two one-hour and two two-hour laboratories. Prerequisite: TECH 191.

ET 358. DIGITAL COMPUTER ANALYSIS (4) I even numbered years, IV on demand. Organization and construction of mini-computer stressing hardware for interfacing; electronics of integrated logic gates, counters, registers, storage circuits and machine language programming. Two one-hour lectures, two one-hour and one two-hour laboratories. Prerequisite: ET 348 or equivalent.

ET 441. INSTRUMENTATION (4) II even numbered years, IV on demand. Industrial instrumentation; measuring of mechanical, fluid, and electric phenomenon, transducers, recorders, indicators and controllers. Principles underlying their design, and applications. Three one-hour lectures, two one-hour and one two-hour laboratories. Prerequisite: ET 291 or consent of instructor.

ET 442. DIGITAL COMPUTER DIAGNOSIS (4) II odd numbered years, IV on demand. Malfunction detection, basic troubleshooting procedure, preventive maintenance, bench check procedures, and modification of computer systems. Two one-hour lectures, two two-hour and one one-hour laboratories. Prerequisite: ET 358.

ET 443. SOLID STATE DEVICES (4) III even numbered years, IV on demand. Semiconductor devices (operational amplifiers, MOS memories, SCR, unijunction, and FET transistors); theory of operations, manufacturing procedures, parameter specifications, performance, testing, and applications. Three one-hour lectures, two one-hour and one two-hour laboratories. Prerequisite: ET 348.

ET 453. DIGITAL COMPUTER PROCESS CONTROL (4) III odd numbered years, IV on demand. Industrial process control utilizing mini and/or micro computers; organization and operation of computer, various process control modules (A/D, D/A), signal conditioning and converting, and design of process control system. Three one-hour lectures and two two-hour laboratories.

ET 490. PROBLEMS IN ELECTRONIC TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in electronic technology. Prerequisite: consent of school.

ET 491. ENERGY, POWER, INSTRUMENTATION AND CONTROL—CYBERNETICS (4) I, III, IV odd numbered years. Systems logic instruments, control, and process regulation. Two one-hour lectures and two two-hour laboratories. Prerequisite: TECH 191. For transfer students only. Obtain permission of department.

Industrial Environment Technology (ENVR)

ENVR 421. INDUSTRIAL POLLUTION CONTROL (4) I, II, III, and alternate summers. Air and water pollution control regulations as they apply to industry; functioning and selection of parameters of industrial pollution control equipment and selected case studies.

ENVR 490. PROBLEMS IN INDUSTRIAL ENVIRONMENT TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in industrial environment technology. Prerequisite: consent of school.

Industrial Education (IE)

IE 252. ELEMENTS OF INSTRUCTION (4) I, II, IV on demand. Models of instruction as related to learner and functions and purposes of specialized career and technology education programs on all educational levels. C/F hrs: 25.

IE 288. FIELD EXPERIENCE (2) I, II, III, IV. Individual observation and participation at various levels and in representative programs in career and technology education. Graded S/U. C/F hrs: 35.

IE 316. CAREER AND TECHNOLOGY EDUCATION IN ELEMENTARY SCHOOLS (4) I, II, III, IV on demand.

Technology in American enterprise system; application of career development theory through construction activities and relationships to subject areas in elementary curriculum. Two one-hour lectures and one two-hour and one three-hour laboratory. C/F hrs: 30.

IE 352. INSTRUCTIONAL SCOPE AND SEQUENCE (4)

II, III, IV on demand. Design and implementation of instructional systems including performance objectives, appropriate content, teaching-learning strategies, and evaluation in specialized career and technology education programs on all educational levels. Prerequisite: IE 252. C/F hrs: 30.

IE 428. DEVELOPMENT OF TRAINING PROGRAMS (4) II

even numbered years, III odd numbered years, IV on demand. Design production and evaluation of training programs for industry and business. Task analysis work design, and cost analysis in development of training programs.

IE 447. TEACHING MANUFACTURING (2) III.

Integration and use of principles developed in previous methods courses and laboratory settings; selection, organization, adaptation, and use of instructional materials or curriculum projects related to manufacturing. Prerequisite: at least 8 credit hours in manufacturing. C/F hrs: 10.

IE 448. TEACHING CONSTRUCTION (2) III.

Integration and use of principles developed in previous methods courses and laboratory settings; selection, organization, adaptation, and use of instructional materials or curriculum projects related to construction. Prerequisite: at least 8 credit hours in construction. C/F hrs: 10.

IE 449. ORGANIZATION AND ADMINISTRATION (4) II,

III. Financial and business procedures; program, laboratory, and equipment planning; maintenance programs; classroom and laboratory management systems; purchasing, storage, dispensing and inventory control procedures; public relations, cocurricular responsibilities. Prerequisites: IE 352 and EDCO 331. C/F hrs: 35.

IE 462. CAREER AND TECHNOLOGY EDUCATION IN ELEMENTARY SCHOOLS (4) I, II, III, IV on demand.

Development and evaluation of instructional activities to facilitate career development and understanding of technology among elementary children. Two one-hour lectures, one two-hour and one three-hour laboratories.

IE 470. COORDINATING COOPERATIVE EDUCATION PROGRAMS (4) II odd numbered years, IV on demand.

Prepares coordinator of cooperative work education programs in all phases of career and technology education. Readings, discussions, and field experiences designed to develop understanding of various types of cooperative programs, role of coordinator, and related instruction.

IE 490. PROBLEMS IN INDUSTRIAL EDUCATION (1-5).

On demand. For advanced student wanting to conduct intensive study of selected problems in industrial education. Prerequisite: consent of school.

Manufacturing Technology (MFG)

★ **MFG 113. MATERIALS PROCESSING I (4) I, II, III, IV** alternate years. Processing equipment, methods, operations, procedures, and design utilized in production of nonmetallic products; raw materials sources; methods of conversion and testing. Two one-hour lectures and two two-hour laboratories. (At Firelands, two hours of lecture, six hours of laboratory.)

★ **MFG 114. MATERIALS PROCESSING II (4) I, II, III, IV** alternate years. Material properties, fabricating equipment, and methods and procedures utilized in production of metallic products. Two one-hour lectures, two two-hour laboratories. (At Firelands, two hours of lecture, six hours of laboratory.)

† **MFG 211. MANUFACTURING PROCESSES II — FORMING (4).** Traditional and non-traditional forming processes; spinning, casting, die-casting, forging, and extruding. Two hours of lecture, six hours of laboratory.

† **MFG 212. MANUFACTURING PROCESSES II — COMBINING (4).** Traditional joining processes such as electric arc, inert gas, submerged arc, and oxygen-acetylene welding; non-traditional processes such as plasma arc, explosive, laser ultrasonic, and electron beam methods of combining materials. Two hours of lecture, six hours of laboratory.

† **MFG 213. NON-TRADITIONAL MANUFACTURING PROCESSES III (4).** Non-traditional machining processes, including numerical control, EDM, ECM, laser machining, ion machining, and ultrasonic machining. Two hours of lecture, six hours of laboratory.

★ **MFG 214. MANUFACTURING PROCESSES (4) I, II, III** alternate years. Processing methods, equipment, tooling, organization, and control employed in production of metallic and nonmetallic products. Two one-hour lectures, two two-hour laboratories. (At Firelands, two hours of lecture, six hours of laboratory.) Prerequisites: MFG 113 and MFG 114.

† **MFG 215. METALLURGY (4).** Basic concepts of physical metallurgy and heat treatment of metals; metal structure, alloys, tempering, tool steels, and powder metallurgy. Two hours of lecture, six hours of laboratory.

† **MFG 216. METROLOGY (4).** Study of instruments and machines for measuring dimensions and surface finishes of machine parts to meet established standards; concepts and procedures involved in quality control and inspection. Two hours of lecture, six hours of laboratory. Prerequisite: AMS 111 or equivalent.

† **MFG 217. PRODUCTION PLANNING AND CONTROL (4).** Production activities and problems associated with them; use of case studies and personal experiences of guest speakers.

MFG 311. MACHINE TOOL PROCESSES (5) I even numbered years, III odd numbered years, IV on demand. Set-up and operation of precision metal processing machine tools, tool preparation, and numerical control programming. Two one-hour lectures and two three-hour laboratories. Prerequisite: MFG 114.

MFG 321. CASTING PROCESSES (4) III, IV alternate years. Significance and role of foundry operations in industry; pattern making, core making, molding, melting, furnace operation, pouring of metals, and cleaning of castings. Two one-hour lectures and one two-hour and one three-hour laboratory. Prerequisites: MFG 113 and MFG 114.

MFG 323. WOOD PROCESSING TECHNOLOGY (5) I, III, IV alternate years. Advanced wood materials; processing methods and product applications. Two one-hour lectures, and two three-hour laboratories. Prerequisite: MFG 113 or permission of instructor.

MFG 329. PLASTICS PROCESSING TECHNOLOGY (4) II, IV. Properties, characteristics, and processing methods of plastic materials; study and application of practices in laboratory. Two one-hour lectures and two two-hour laboratories. Prerequisite: MFG 113.

MFG 331. SHEET METAL FORMING AND FABRICATION (4) II odd numbered years, IV on demand. Forming and fabrication methods employed in sheet metal industries, materials characteristics, and tool and machine processes. Two one-hour lectures and two two-hour laboratories. Prerequisite: MFG 114.

MFG 333. MATERIALS PROCESSING I (4) I, II, III, IV alternate years. Processing equipment, methods, operations, procedures, and design utilized in production of nonmetallic products; raw material sources; methods of conversion and testing. Two one-hour lectures, two two-hour laboratories. For transfer students only. Obtain permission of school.

MFG 334. MATERIALS PROCESSING II (4) I, II, III, IV alternate years. Material properties, fabricating equipment, and methods and procedures used in production of metallic products. Two one-hour lectures, two two-hour laboratories. For transfer students only. Obtain permission of school.

MFG 338. MATERIALS AND METALLURGY (4) II odd numbered years. IV alternate years. Metallurgical structure and its effects on properties of ferrous and non-ferrous metals and alloys. Properties of metallic and non-metallic materials that effect their usage in industrial products. Prerequisites: MFG 113 and MFG 114.

MFG 361. WELDING (4) I, II, III, IV on demand. Welding processes in joining metals, strength of materials in welded joints, technological developments in welding industry and welded materials. Two one-hour lectures, two two-hour laboratories. Prerequisite: MFG 114 or consent of instructor.

MFG 424. MANUFACTURING PROCESSES (4) I, III, IV alternate years. Processing methods, equipment, tooling, organization, and control employed in production of metallic and nonmetallic products. Two one-hour lectures, two two-hour laboratories. Prerequisite: MFG 113 and MFG 114. For transfer students only. Obtain permission of school.

MFG 426. QUALITY ASSURANCE (4) I even numbered years, IV on demand. Use and selection of inspection equipment, planning and controlling of quality at strategic points in manufacturing process, and assurance of receiving, fabricating, and shipping acceptable materials. Prerequisites: MFG 214 and MATH 115, or consent of instructor.

MFG 427. WORK MEASUREMENT AND ANALYSIS (4) III, even numbered years, IV on demand. Design and measurement of work and techniques of setting work standards to effectively use tools, equipment, and manpower. Work measurement and application of principles of motion economy in practical situations. Prerequisite: MFG 214 or consent of instructor.

MFG 451. CASTING PROCESSES (4) III, IV on demand. New and production oriented model-making, pattern-making, mold-building, and casting processes and materials. Prerequisite: MFG 321.

MFG 458. MACHINE TOOL PROCESSING (4) II even numbered years, IV on demand. Advanced precision metal machine tool processes; production machines and related tooling problems. Prerequisite: MFG 311.

MFG 459. CERAMICS PROCESSING TECHNOLOGY (5) III even numbered years, IV on demand. Processing methods utilized in relationship with inorganic, non-metallic materials. Raw materials, methods of conversion, production applications, and testing and quality control procedures. Two one-hour lectures and two three-hour laboratories. Prerequisite: MFG 113.

MFG 461. SHEET METAL FORMING AND FABRICATION (4) on demand. Advanced sheet forming processes; production and tooling techniques and problems. Prerequisite: MFG 331 or permission of instructor.

MFG 463. WELDING PROCESSES (4) I, III, IV on demand. Welding of metals using oxyacetylene, electric arc, MIG and TIG processes including welding metallurgy; weld testing; design and construction of welded items; new technology development in welding. Skill emphasis on horizontal, vertical, and overhead welding. Prerequisite: MFG 361.

MFG 490. PROBLEMS IN MANUFACTURING TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in manufacturing technology. Prerequisite: consent of school.

Technology, General (TECH)

TECH 121. INDUSTRIAL MATHEMATICS (5) I, II, III, IV on demand. Mathematics as applied in industry and technology. Problems in geometry, algebra, trigonometry, and calculus.

* **TECH 152. INTRODUCTION TO TECHNOLOGY—THE MAN-MADE WORLD** (3) I, II, III, IV on demand. Through active participation in variety of technology problem-solving activities, students introduced to principles and developments which consider technology as shaper of man-made world, man's career and other roles, and future.

* **TECH 191. ENERGY, POWER, INSTRUMENTATION, AND CONTROL—MECHANIZATION** (4) I, II, III, IV alternate years. Mechanization; energy conversion into useful electrical, fluid, or mechanical power and associated transmission, instrumentation, and controlling devices. Research and experimentation requiring analysis and diagnosis of automated systems. Two one-hour lectures and one two-hour and one three-hour laboratory. (At Firelands, two hours of lecture, six hours of laboratory.)

† **TECH 218. MANAGEMENT AND SUPERVISION** (3). Responsibilities of management and supervision within manufacturing industries; organization, duties and responsibilities, human relations, training, promotion, quality and quality control, and management-employee relations.

TECH 289. COOPERATIVE INTERNSHIP-BASIC (5) I, II, III, IV. Work and study in business, industry, service or government agency in department-approved 12-week full-time position related to student's intended area of concentration. Prerequisite: consent of department. Graded S/U.

TECH 313. HANDICRAFTS (4) I, II, III, IV. Creative possibilities inherent in wide variety of materials and tool operations. Development of lifetime recreational interests and abilities to direct activities in schools, camps for handicapped, and adult education. Two one-hour lectures and one two-hour and one three-hour laboratory.

TECH 322. INTRODUCTION TO TECHNOLOGY—MAN-MADE WORLD (3) I, II, III, IV on demand. Through active participation in variety of technology problem-solving activities, students introduced to principles and developments which consider technology as shaper of man-made world, man's career and other roles, and future. For transfer students only. Obtain permission of department.

TECH 388. FIELD STUDIES IN INDUSTRY (3) IV. Study of wide range of industries through visits and observation; industrial organization, labor practices, raw materials, manufacturing processes, and inter-relationships of practices, products, technologies, and human problems.

TECH 389. COOPERATIVE INTERNSHIP-INTERMEDIATE (5) I, II, III, IV. Work and study in business, industry, service or government agency in department-approved 12-week full-time position related to student's area of concentration. May be repeated to 10 hours. Prerequisite: TECH 289. Graded S/U.

TECH 391. INTERNAL COMBUSTION ENGINES (5) I, II, III, IV on demand. Engine fundamentals and basic thermal cycles used to convert heat energy into mechanical power. Analysis, diagnosis, performance testing, and repair procedures applied to engines. Two one-hour lectures and two three-hour laboratories. Prerequisite: TECH 191 or consent of instructor.

TECH 392. ENERGY, POWER, INSTRUMENTATION, AND CONTROL—MECHANIZATION (4) I, II, III, IV alternate years. Mechanization; energy conversion into useful electrical, fluid or mechanical power and associated transmission, instrumentation and controlling devices. Research and experimentation requiring analysis and diagnosis of automated systems. Two one-hour lectures and one two-hour and one three-hour laboratory. For transfer students only. Obtain permission of department.

TECH 454. ENERGY CONVERSION AND POWER TRANSMISSION (4) III odd numbered years, IV on demand. Existing and developing systems of energy conversion and power problems of fuel efficiency, pollution, potential, maintenance and application.

TECH 457. HANDICRAFTS FOR RECREATION, THERAPY, AND TEACHING PROFESSIONALS (4) I, II, III, IV. Creative possibilities using various materials and tools in development of personal lifetime recreational interests; skill in directing others in such activities. Prerequisite: TECH 313 or permission of instructor.

TECH 489. COOPERATIVE INTERNSHIP-ADVANCED (5) I, II, III, IV. Work and study in business, industry, service, or government in department-approved 12-week full-time position related to student's area of concentration. Prerequisite: graduate standing or 15 hours credit in TECH 289 and TECH 389 and consent of department. Graded S/U.

TECH 490. PROBLEMS IN TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in technology. Prerequisite: consent of school.

Visual Communication Technology (VCT)

VCT 203. VISUAL COMMUNICATION TECHNOLOGY (4) I, II, III, IV. Visual communication theory and processes; television production, film making, continuous tone photography, slide presentations, multimedia production, and image transfer systems. Two one-hour lectures and two two-hour laboratories.

★ **VCT 208. GRAPHIC COMMUNICATIONS** (4) I, II, III, IV. Overview of major printing processes; concentration in offset lithography; Line-photography, study and experiences in image design, image assembly, photo conversion, image carrier preparation, and image transfer. Two one-hour lectures and two two-hour laboratories. (At Firelands, two hours of lecture, six hours of laboratory.)

VCT 209. SCREEN PROCESS PRINTING (4) I, III, IV. Hand cut and photographic screen process image conversion; single and multiple color process. Two one-hour lectures, two two-hour laboratories. Prerequisite: VCT 208 or consent of instructor.

VCT 282. PHOTOGRAPHY I (4) I, II, III, IV. Introductory course on basic camera and darkroom skills; film processing, printing techniques; camera skills and operation. Two one-hour lectures and two two-hour laboratories.

VCT 308. PHOTO OFFSET PRINTING I (4) I, IV on demand. "Prepress" areas of graphic reproduction. Art preparation techniques, typography, line and halftone photography, exposure calibrating, and tone reproduction printing requirements. Cold type composition, spacing and copyfitting. Two one-hour lectures, one two-hour and two two-hour laboratories. Prerequisite: VCT 208 or consent of instructor.

VCT 309. PHOTO OFFSET PRINTING II (4) II, IV. Stripping, imposition procedures, and platemaking; offset lithographic printing press theory, maintenance, and operation. Ink and paper in relationship to offset presswork. Theory and practical experience in four-color-process reproduction. Two one-hour lectures and one two-hour and two two-hour laboratories. Prerequisite: VCT 208 and VCT 308.

VCT 382. PHOTOGRAPHY II (4) II, III, on demand. In-depth course; sensitometric characteristics of film, problem solving for specific photo problems, using special techniques to produce better negatives and prints. Two one-hour lectures, two two-hour laboratories. Prerequisite: VCT 282.

VCT 386. ANIMATION TECHNOLOGY (4) II, IV on demand. Types and techniques of animation and animated films. Structured experiences in producing simple film and effector animations. Two one-hour lectures and one two-hour and two two-hour laboratories. Prerequisite: VCT 203 or RTVF 264.

VCT 433. VISUAL COMMUNICATION TECHNOLOGY (4) I, II, III, IV. Visual communication theory and processes; television production, film making, continuous tone photography, slide presentations, multimedia production, and image transfer systems. Two one-hour lectures and two two-hour laboratories. For transfer students only. Obtain permission of instructor.

VCT 438. GRAPHIC COMMUNICATIONS (4) I, II, III, IV. Major printing processes; focus on offset lithography, line photography, study and experiences in image design and assembly, photo conversion, image carrier preparation, image transfer. Two one-hour lectures, two two-hour laboratories. For transfer students only. Obtain permission of instructor.

VCT 456. COLOR PROCESS PHOTOGRAPHY (4) III, IV on demand. In-depth study of process photography for reproduction of photographs and illustrations in black and white and color. Halftones, duotones (black and color), mechanical color separation, photographic four-color-separation, color posterization, and color proofing systems. Two one-hour lectures and two two-hour laboratories. Prerequisites: VCT 208 and VCT 308 and VCT 309.

VCT 460. PHOTOGRAPHY (4) IV. Research and experimentation in special effects photography and creative darkroom techniques. Two one-hour lectures and two two-hour laboratories. Prerequisite: VCT 282.

VCT 465. PHOTOGRAPHY IN COMMERCE AND INDUSTRY (4) II, IV on demand. Advanced camera and lighting techniques, studio and darkroom design and management as applied to commercial and industrial photographic fields. Two one-hour lectures, two two-hour laboratories. Prerequisites: VCT 282 and VCT 382.

VCT 466. PROJECTED COMMUNICATION (4) III, IV on demand. Communication problem solving through exploration and experimentation in 35 mm slide presentations; techniques in multiscreen, multi-image, and multimedia. Two one-hour lectures; two two-hour laboratories. Prerequisite: VCT 208 and VCT 282.

VCT 467. VISUAL COMMUNICATIONS TECHNOLOGY SYNTHESIS (4) II, III. Techniques of problem solving; aesthetic and technical qualities of presentation. Must be taken with ART 311B. Two one-hour lectures, Two two-hour laboratories. Prerequisites: VCT 208 and ART 211 and senior standing.

VCT 468. VIDEO TAPE RECORDING IN VISUAL COMMUNICATIONS TECHNOLOGY (4) I, IV on demand. Both ½" and ¾" video tape productions. Television recording theory, production designing, and planning and use techniques with subprofessional equipment. Two one-hour lectures; two two-hour laboratories. Prerequisites: VCT 203 and RTVF 263.

VCT 482. PHOTOGRAPHY III (4) II, III and on demand. Fundamentals of Zone System and large format photography; focus on learning the structure of Zone System and its application to all areas of photography. Two one-hour lectures, two two-hour laboratories. Prerequisite: VCT 382.

VCT 490. PROBLEMS IN VISUAL COMMUNICATION TECHNOLOGY. On demand. For advanced students wanting to conduct intensive study of selected problems in visual communication technology. Prerequisite: consent of school and instructor.

Theatre (THEA)

(See speech communication)

University Division (UD)

UD 100. UNIVERSITY SEMINAR (2) I, II, III, IV. Introduces new students to academic and cultural life of University; understanding of purpose and value of higher education as it relates to general studies and prospective majors. Class activities and individual projects develop skills necessary for academic success. Graded S/U.

UD 101. LITTLE COLLEGE: EVALUATING SOCIAL CONTROVERSIES (5) I. Interdisciplinary inquiry in social sciences. Analysis of arguments through assumptions, ambiguity, data, and fallacies; formulation of conclusions and alternative inferences. Approved for social science credit. Taught as a package with UD 102.

UD 102. LITTLE COLLEGE: VALUES ANALYSIS (2) I. Primary value conflicts; consequences of particular value assumptions; value assumptions and decision making; alternative cultures and political ideologies in terms of basic values. Taught as a package with UD 101.

UD 111. HUMANITIES CLUSTER COLLEGE (10) II. Quarter-long, interdisciplinary, "living-learning" program integrating humanities around set of common themes by bringing together appropriate material from history, literature, philosophy, art, and theatre. Three sections of UD 111 must be scheduled concurrently for total of 10 hours. Must be approved for group V credit each time offered. Prerequisite: completion of ENG 111, placement in, or exemption from ENG 112.

★ **UD 121. TRANSITION COURSE** (2) I, IV. Transition to University life through orientation to university facilities and options; activities stressing study skills and personal growth.

UD 122. CAPSTONE SEMINAR (2-5) I, II, III. Integration of themes, concepts, methodologies, and values presented in departmentally based courses of coordinated quarter. May be repeated up to 16 credits.

UD 131. CAREER PLANNING AND DECISION MAKING (2) I, II, III, IV. Intensive investigation of self in relation to academic and career planning, and opportunities within world of work; decision-making theories and career research activities.

★ **UD 290. GENERAL STUDIES SEMINAR** (2-5) I, II, III, IV. Topics in general studies area not normally available through regular departmental offerings. May be repeated to 16 hours.

UD 322. COORDINATED QUARTER SEMINAR (1-5) I, II, III, IV. Upper division seminar; synthesizing course for coordinated quarter offered through University Division of General Studies. Open only to students enrolled in coordinated quarter. May be repeated to eight hours in different coordinated quarters.

Visual Communication Technology (VCT)

(See technology)

Women's Studies (WS)

WS 200. INTRODUCTION TO WOMEN'S STUDIES (4). Individual and collective achievements of women; roles women do and might perform; "nature" of women and ways it has been imagined in our own and other cultures. Required of all women's studies majors and minors.

WS 300. TOPICS IN WOMEN'S STUDIES (4). Topics of interest in studying women in subject area not offered in regular college course offerings. May be repeated twice if topics differ. No prerequisite.

WS 400. SENIOR SEMINAR IN WOMEN'S STUDIES (4). Theories, methods, and approaches to women's studies. Interdisciplinary research project required. Required of all women's studies majors and minors. Prerequisite: senior standing.

WS 490. INDEPENDENT STUDY IN WOMEN'S STUDIES (1-4). Study project to be designed by student and member(s) of women's studies faculty in subject area not offered in regular course offering. Prerequisite: junior or senior standing.

THE STUDENT CODE

The Student Code is a product of the representative process. It consists of policies and procedures which have evolved from within the general campus community and those which conform with state and federal law. It recognizes the right of the University to establish standards of performance and behavior basic to its lawful missions, processes, and functions; moreover, it responds to the need for procedural due process in defining the rights and responsibilities of all students of Bowling Green State University. It further recognizes that the University shall conduct its affairs in keeping with the delegation of authority principle as prescribed by Ohio law:

"The General Assembly hereby declares its expectation that the authority of government vested by law in the boards of trustees of state-assisted institutions of higher education shall in fact be exercised by said boards. Boards of trustees may consult extensively with appropriate student and faculty groups. Administrative decisions about the utilization of available resources, about organizational structure, about disciplinary procedure, and about administrative personnel shall be the exclusive prerogative of boards of trustees. Any delegation of authority by a board of trustees shall be accompanied by appropriate standards of guidance concerning expected objectives in the exercise of such delegated authority and shall be accompanied by periodic review of the exercise of this delegated authority to the end that the public interest in contrast to any institutional or special interest shall be served."

This code is issued by the vice provost for institutional planning and student affairs in accordance with the policies of the University Faculty Senate, the Board of Trustees, and the president of Bowling Green State University.

In accordance with University procedure, the president shall have the final responsibility and authority for the discipline of all students of the University. That responsibility and authority may be delegated by the president to appropriately designated University officials. Duly constituted student judicial bodies and appellate bodies may be authorized to conduct student disciplinary hearings and appeals and to recommend any course of University disciplinary action to the appropriately designated University official(s).

This code may be changed at any time by the Board of Trustees.

Amendments approved by the Board of Trustees August 28, 1971, and September 30, 1977.

I. DEFINITIONS

When used in this code:

- A. The term "University" means Bowling Green State University, its main and branch campus.
- B. The term "University property" means all property owned, leased, or on loan to the University.
- C. The term "University premises or University-related premises" means all lands, buildings, and facilities owned, leased or controlled by the University or by fraternities or sororities and affiliated off-campus student residences. (Note: This definition does not include other housing located off University premises.)
- D. The term "student" means any person registered for enrollment in any University course or any person officially enrolled in a University course.
- E. The term "designated University official" means any person employed by the University and authorized by the University to act in a prescribed manner in accordance with the statutes of the Ohio Revised Code applying to Bowling Green State University, the By-Laws and action of the Board of Trustees of Bowling Green State University and the Academic Charter.

- F. The term "member of the University community" means any student, faculty member, University official, or employee of the University.
- G. The term "University document" means any University record, written communication or form.
- H. The term "student publication" means written material, including but not limited to brochures, newspapers, special interest magazines or college or department magazines, edited and published by students for distribution to members of the University community.
- I. The term "student judicial body" means any duly constituted organization authorized to conduct student disciplinary hearings and to recommend any course of University disciplinary action to the appropriate University official(s).
- J. The term "registered student organization" means a group or association of students which has complied with the requirements of registration provided in this Code but does not imply University sponsorship of the organization or its programs and activities.
- K. The term "days" means days classes are in session.

II. STATEMENT OF RIGHTS

- A. The University affirms the right of each student to be free from discrimination on the basis of age, race, color, national origin, religious creed, political views, sex, or handicap.
- B. Every student and registered student organization shall have the right to receive a statement of all regulations which directly affect the student and/or student organization.
- C. A student may petition the vice provost for student affairs or his designee for amendment of the code (see Section X).
- D. The University affirms the right of each student to conduct research and to publish, discuss, and exchange findings and recommendations, except that the University may promulgate rules and regulations related thereto.
- E. Students shall have the right to establish and elect a democratic student government.
- F. Each student shall have the right to petition the appropriate University board for redress of grievances, amendment of University regulations and modification of University policies.
- G. Students shall be secure in their persons, living quarters, papers, and effects from unreasonable, illegal, or unauthorized searches and seizures.
- H. The University affirms the right of students to be members of University and college committees, except that a student may not be a member of a committee which by rule is constituted exclusively of members of the University faculty.
- I. The University recognizes each student's right of freedom of speech, assembly, and association as guaranteed by the Constitution and all provisions of this code shall be construed to be consistent with these rights.
- J. The University recognizes the right of each member of the University community to interview for employment with any organization, firm, corporation, or any other body.
- K. These enumerated rights shall not be construed to deny or disparage other rights of students either as members of the University community or as citizens of the United States of America.

III. OFF-CAMPUS FREEDOMS OF STUDENTS

A. Exercise of rights of citizenship

College and University students are both citizens of the larger community and members of the academic community. As members of the larger community, students are guaranteed the freedoms of speech, peaceful assembly, and right of petition granted to

all citizens. As citizens of the academic community, students are subject to additional obligations necessary for this membership.

1. A student's intellectual and personal development often grows through the exercise of his or her rights as a citizen in both communities.
2. Faculty members and University officials must insure against the use of University power to curtail this expression.

B. University authority and civil penalties

When a student violates the law through his or her off-campus activities, University officials may apprise him or her of sources of legal counsel and may offer other assistance.

1. Students who violate the law in the course of their off-campus activities will incur penalties prescribed by civil authorities, but University authority will never be used to merely duplicate the functions of general laws.
2. The University's special authority will be asserted only where its interests as an academic community are distinctly and clearly impaired.
3. If a student violates University regulations as a result of his or her off-campus activity (regulations concerning class attendance, for example), he or she will be subject to no greater penalty than would normally be imposed.

IV. UNIVERSITY POLICIES AND REGULATIONS

A. Policies

1. *Academic honesty policy* (See Appendix I)
2. *Housing*
 - a. On-campus students have the authority to participate in the creation of all University residence hall policies affecting their personal lives. This authority includes the right to adopt rules and regulations and to impose sanctions for violations. These provisions must not conflict with any specifications of this code, the Residence Hall Manual, or the applicable city, state, or federal codes. (Note: all other general residence hall policies are included in the Residence Hall Manual.)
 - b. Undergraduate students are required to reside in University-owned living units as a condition of enrollment unless they are commuting daily from the homes of their parents, guardians, or spouses, or unless they have attained 90 earned academic hours and/or six quarters of campus residency on or before the first day of classes for fall quarter. The housing acceptance agreement is a contract for the entire academic year. For the purposes of this regulation, a home is defined as the actual and regular place of residence in the community in which the parent, guardian, or spouse is eligible to register to vote. A guardian is defined as a person awarded legal guardianship by a court of competent jurisdiction. A student must be in compliance with the University Housing Policy as a condition for application for exception from the policy.
3. *Residence hall policy on search of living units*
 - a. All residence hall staff members are authorized to periodically inspect the rooms assigned to them. These inspections are to insure that the occupants are observing the standards of safety and hygiene, the rules and regulations of each hall, and the requirements of pertinent public laws.
 - b. The times for whole house/hall inspections will be posted and at no time during this procedure shall the staff member open

desks, bureaus, closets, or examine the personal effects of the residents of the room.

- c. If a resident adviser learns that a student is allegedly in possession of contraband,* the resident adviser will immediately notify the hall director or assistant hall director and inform him or her of all relevant facts and/or circumstances.
 - d. If the hall director or assistant hall director has reason to believe the allegations, he or she may conduct a search of the premises after obtaining the resident's permission.
 - e. If the student consents to the search, the hall director or assistant hall director shall enter the room and conduct a search for the specific items of contraband. This search shall be conducted in the presence of the room resident and with the assistance of another member of the residence hall staff, according to the procedure mentioned in Section IV A3.
 - f. If the student in question cannot be found, a resident adviser or another person designated by the hall director or assistant hall director will be posted at the door of the student's room until the student returns.
 - g. The hall director will deliver all seized items, together with a written report of the incident to the appropriate authority (area coordinator, director of standards and procedures or Campus Safety and Security).
 - h. If the student refuses to grant permission to search, which is his or her right, the hall director or assistant hall director will order the room cleared of all persons, secure the room, and notify the director of Campus Safety and Security. The Campus Safety and Security director will assume full control and direction of the matter and will obtain a search warrant before entering the room. NOTE: For the purpose of this policy, all small group living unit houseparents will have the same rights as those of a hall director.
4. *Unpaid Accounts*
 - a. Unpaid University accounts may preclude registration for the ensuing quarter. Arrangements for satisfactory settlement of these accounts can be made with the Office of the Bursar.
 - b. Students who have checks returned to the bursar's office for insufficient funds will be charged a service fee for each check returned.

B. Regulations

In developing responsible student conduct, disciplinary proceedings play a substantially secondary role to example, counseling, guidance, and admonition. At the same time, the University has a duty and the corollary disciplinary power to protect its educational purpose by setting standards of scholarship and conduct for its students by regulating the use of University facilities. In general, University discipline shall be limited to conduct adversely affecting the University's pursuit of its educational missions.

The following misconduct is subject to disciplinary action and/or criminal prosecution in the civil courts.

* Contraband is defined as any personal property which is unauthorized and/or illegal under the rules and regulations of the residence hall, the provisions of the University Code, the ordinances of the City of Bowling Green, Ohio, or the laws of the State of Ohio or the United States.

1. A student who is found guilty of academic misconduct shall be subject to the maximum penalty of expulsion or any lesser sanction as authorized by the University Policy on Academic Honesty. Academic misconduct, including all forms of academic misconduct wherever committed, is illustrated by but not limited to cases of plagiarism and dishonest practices in connection with examinations. (See Appendix I — University Policy on Academic Honesty.)
2. A student who is found guilty of any of the following acts shall be subject to the maximum sanction of dismissal or any lesser sanction authorized by this Code.
 - a. *Disruption of University authorized activities.*
Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other University activities, including its public service functions or other authorized activities, on University premises or University-related premises.
 - b. *Arrest and conviction for any offense covered by a division of Section 3345.23 of the Ohio Revised Code.*
 - c. *Infliction or threat of bodily harm.*
 - 1) Inflicting bodily harm upon any person while on University premises or University-related premises;
 - 2) Taking any action for the purpose of inflicting bodily harm upon any person while on University premises or University-related premises;
 - 3) Taking any action without regard for bodily harm which could result to any person while on University premises or University-related premises; or
 - 4) Threatened use of force to inflict bodily harm upon any person while on University premises or University-related premises.
 - d. *Damage or destruction of property.*
Damaging, destroying or defacing University property or property of any person while on University premises or University-related premises.
 - e. *Theft of property.*
Theft of University property or property of any person while on University premises or University-related premises.
 - f. *Hazing.*
Commission of any act, or conspiring to commit any act, that injures, degrades, disgraces or tends to injure, frighten, degrade or disgrace any person.
 - g. *Unauthorized entry to or use of a University facility.*
Unauthorized entry to or use of any building, structure or facility on University premises or University-related premises.
 - h. *False reporting of emergency.*
The making of a false report of a bomb, fire, or other emergency in any building, structure or facility on University premises or University-related premises by means of activating a fire alarm or in any other manner.
 - i. *Unauthorized use or alteration of emergency or safety equipment.*
Unauthorized use or alteration of fire fighting equipment, safety devices, or other emergency or safety equipment.
 - j. *Interference with emergency evacuation procedure.*
 - 1) Interference with emergency evacuation procedures prescribed for any building, structure, or facility on University premises or University-related premises; or
 - 2) The failure to follow prescribed emergency procedures such as willful disregard of the emergency or of a fire alarm signal.
 - k. *Possession or use of firearms.*
Possession, keeping, and/or use of a firearm of any description in a fraternity or sorority house, an affiliated off-campus student residence, a University residence hall, or any other area of the University premises or University-related premises.
 - l. *Possession or use of dangerous weapons and/or explosive devices.*
Possession, keeping, and/or use of a dangerous weapon or any explosive device of any description in a fraternity or sorority house, an affiliated off-campus student residence, a University residence hall, or any other area of the University premises or University-related premises.
 - m. *Distribution or sale of drugs, narcotics, barbiturates, hallucinogens, marijuana, or amphetamines.*
The distribution or sale of drugs, narcotics, barbiturates, hallucinogens, marijuana, or amphetamines on University premises or University-related premises, except as authorized by law.
 - n. *Possession or use of narcotics.*
The possession, keeping and/or use of narcotics, including but not limited to opium (morphine, codeine, heroin) and every other substance not chemically distinguishable from them, on University premises or University-related premises, except as authorized by law.
3. A student who is found guilty of any of the following acts shall be subject to the maximum sanction of suspension or any lesser sanction authorized by this code.
 - a. *Possession or use of drugs, barbiturates, hallucinogens, marijuana, or amphetamines: Planting, cultivating and/or providing a dwelling for drugs.*
The possession, keeping and/or use of drugs, barbiturates, hallucinogens, marijuana, or amphetamines, including but not limited to lysergic acid diethylamide (LSD) and every other substance not chemically distinguishable from them, on University premises or University-related premises, except as authorized by law.
 - b. *Using and/or making of keys.*
Knowingly using, making or causing to be made any key or keys for any building, laboratory, facility, or room of the University, except as authorized by the president or his designee(s).
 - c. *Furnishing false information.*
Furnishing to a University office or to a University official a written or oral statement known to be false.
 - d. *Misuse of University documents.*
Forging, transferring, altering, or otherwise misusing any student fee card, identification card, schedule card, other University identification, or any other document or record.
 - e. *Use of University telephones.*
Charging any long distance telephone call or telegraph message to any telephone on University premises or University-related premises without proper authorization.

- f. *University housing and visitation.*
Violation of the University Housing and Visitation Policy and/or rules governing residence in University owned or controlled property.
4. A student who is found guilty of violating any of the following regulations shall be subject to the maximum sanction of strict disciplinary probation or any lesser sanction authorized by this code.
 - a. *Alcoholic beverages.*
Possession, keeping, and/or consumption of alcoholic beverages in any form on University premises or University-related premises, except in those areas of the University premises or University-related premises where the president or his designee has authorized the possession, keeping, and/or consumption of alcoholic beverages.
 - b. *Violation of published rules not included in this code governing:*
 - 1) Conduct in a residence hall or a dining area;
 - 2) Conduct in housing designated for social fraternities and social sororities;
 - 3) Conduct in affiliated off-campus student residence;
 - 4) Conduct on University premises or University-related premises; or
 - 5) The registration of organizations, the use of University facilities, or the time, place, and manner of public expression.
 - c. *Gambling.*
Playing a game for money or for something of value or selling, bartering, or disposing of a ticket, order, or any interest in a scheme of chance, by whatever name, on University premises or University-related premises.
 - d. *Sales and solicitation.*
All sales or solicitation on University premises must be authorized by the University; any which are not authorized will be subject to the above sanction.
5. *Repetition of Misconduct.*
A student who is found guilty of conduct proscribed by any paragraph of this Code shall be subject to the maximum sanction of dismissal or any lesser sanction authorized by this Code if found guilty subsequent to a prior finding of guilt for conduct for which the sanction imposed was dismissal, suspension or strict disciplinary probation.

V. JURISDICTION AND PROCEDURES

A. Jurisdiction

1. Residence hall judicial boards have original jurisdiction in all cases involving the violation of a specific hall's regulation or the violation of rules applying solely to the residence halls. Where the jurisdiction of the residence hall board is not apparent, the case will be referred to the director of standards and procedures.
2. Traffic Board has original jurisdiction over all students' violations of University parking regulations. These regulations are enumerated in the document entitled "Motor Vehicle and Bicycle Regulations." Traffic Board has no appellate jurisdiction although it may serve other duties as outlined or specified in the Student Government Association Constitution.
3. *Student Arbitration Board*
 - a. The Student Arbitration Board will handle all cases referred to it by the director of standards and procedures involving alleged violations of this Code by undergraduate students. It shall also serve as an appellate

- body over all other undergraduate judicial boards and the Traffic Board.
- b. The power of this board shall be to recommend any course of University disciplinary action to the director of standards and procedures for implementation.
- c. The Board shall consist of five student members appointed by the student body president and approved by the Student Government Association. A faculty or staff adviser shall be appointed by the president of the University.
- d. The board may be designated as arbitrator of disputes within the University community. All parties to the dispute will be bound by the decision with the right of appeal.
- e. The board may give advisory decisions on issues referred to it that are not before any judicial body. Such opinions may not be binding.
4. *Graduate Student Judicial Board*
 - a. The Graduate Student Judicial Board will handle all cases referred to it by the director of standards and procedures involving alleged violations of this Code by graduate students.
 - b. The power of this board shall be to recommend any course of University disciplinary action to the director of standards and procedures for implementation.
 - c. The board shall be composed of five members. Three graduate student representatives shall be elected from the Graduate Student Senate. Two representatives from the graduate faculty shall be appointed by the dean of the Graduate College.
5. *University Appeals Board*
 - a. *Composition:* The University Appeals Board shall consist of two faculty members, one administrator, two graduate students, and two undergraduate students, together with one alternate in each category. Faculty members shall be appointed by the Faculty Senate; the administrative member shall be appointed by the president; graduate student members shall be appointed by the Graduate Student Senate; and undergraduate student members shall be appointed by the Student Government Association. Alternate members shall be appointed by the president of the University or his designee.
 - b. *Functions:*
 - 1) The University Appeals Board must rule on all appeals from the Student Arbitration Board, the Graduate Student Judicial Board, and the director of standards and procedures if the case in question originated with these sources.
 - 2) The University Appeals Board may rule at its discretion on appeals from the Student Arbitration Board if the particular case originated in a lower judicial body.
 - 3) The University Appeals Board shall have original jurisdiction in all cases involving temporary suspension and/or summary suspension (Section V.C and V.D).
 - c. The University Appeals Board, when acting as an appellate body, will review the records involved. It may reverse or affirm the decision of the previous judicial body.
 - d. The University Appeals Board, when acting in cases of original jurisdiction, shall follow the procedures outlined in Section V.C and V.D of this Code.

- e. Final review: All decisions of the University Appeals Board may be appealed to the president of the University.
- 6. An appeal from a decision by the initial hearing board may be made by the defendant (or person charged) to the appropriate appellate body within five days of the decision.
 - a. An appeal shall be limited to a review of the full record submitted by the hearing board.
 - b. Appeals must be based on alleged errors in procedure or fact.
 - c. The appellant must cite the exact reason(s) for belief of error in procedure or fact with appropriate references.
 - d. The burden of proof is on the appellant.
 - e. An appeal may not result in a more severe sanction for the accused student.
 - f. All appeals must be heard within 15 days of the decision rendered from the initial hearing.
- 7. All judicial and appellate bodies within the University must formulate and publish procedural rules consistent with the provisions of this code.
- 8. Judicial bodies may give advisory opinions on issues within their jurisdiction, providing these issues have not been brought before any other judicial body and do not involve violations of University regulations. Such opinions shall not be binding on the party making the request and may not be used as a precedent in future proceedings.

B. Procedures

1. Referral of case (on campus)

Any student, University employee, or other person may report suspected violations of this Code to the director of standards and procedures.

a. Interview

- 1) If the director of standards and procedures has reason to believe these facts constitute a code violation, he will contact the alleged student offender — in writing or in person — to schedule an interview.
- 2) At the interview the director will present the student with written charges and will advise him or her of his or her right to have the alleged violation heard by either the director of standards and procedures or the appropriate student judicial board.
- 3) The director will inform the student of the sanctions involved should he or she (the accused) enter a plea of guilty.
- 4) Within five days after the interview the accused student will make his or her decision in writing to the director stating who the student desires to conduct the hearing.

b. Hearing

- 1) The hearing will be conducted within 15 days following the interview. The director is authorized to grant a five day extension.
- 2) If the accused student's charges are heard by the director, the case may be handled in one of two ways: (1) non-punitive counseling or (2) punitive correctional action. The director may consult professional personnel from the Counseling and Career Development Center or Health Service to assist in counseling with the student.
- 3) If the student chooses to have his or her case heard by the Student Arbitration Board or the Graduate Student Judicial Board, the director of standards and

procedures will refer the case to the prosecutor of the appropriate board.

2. Because the focus is on the education of students, disciplinary hearings are conducted as informal inquiries and do not follow formalized courtroom procedures. Decisions at such hearings will be limited to evidence introduced therein. If a student has been properly notified of a hearing and fails to appear, he or she may be temporarily suspended by the director of standards and procedures until he or she requests and appears at a new hearing, provided no justifiable excuse was accepted by the appropriate board or director.
3. The following procedural safeguards will be followed in hearings which could result in probation, suspension, or dismissal of the accused:
 - a. The student will be given written notice of the specific charges against him or her, the time and place of the hearing, evidence to be presented against him or her, and the possible action to be taken against him or her if the charges are supported.
 - b. The accused student will have the right to be assisted by an adviser of his or her choice.
 - c. The burden of proof rests on the official bringing the charge.
 - d. The accused student has the right to present evidence and witnesses in his or her own behalf.
 - e. The director or board shall keep a record of the hearing.
 - f. The student shall be advised in writing of his or her right to appeal the director's or the board's decision to the University Appeals Board.
 - g. The board or director must give the student a written explanation of the reasons for the disposition of the case.
4. Referral of case
 - a. In all cases involving violations of the law on campus and in which an arrest has been effected, Campus Safety and Security will bring the person in violation before the Court of Common Pleas, or other local court of competent jurisdiction. The University will observe the litigation of the courts.
 - b. In all other law violations occurring on the campus, the matter should be referred to the director of standards and procedures for further investigation and handling.

C. Temporary suspension

In the rare cases where a student has allegedly violated the law in the course of his or her off-campus behavior and where the University's interest as an academic community is distinctly and clearly impaired the following procedures will be followed.

1. When the student's case has progressed to the indictment stage, or after an information has been filed by the prosecuting attorney, the director of standards and procedures shall call a hearing to be conducted by the University Appeals Board. This hearing shall be conducted in the presence of the student (if he or she is available) and must comply with the elements of due process outlined in this Code.
2. Five days prior to the hearing, the director of standards and procedures must give the student written notice of the time, place, and date of the hearing and the specific nature of the alleged violation with which he or she has been charged.

3. The University Appeals Board will review all circumstances surrounding the alleged violation and will decide whether the interests of the academic community require or warrant temporary suspension.
 - a. The student will receive a record of the hearing and of the University Appeals Board's decision on the case.
 - b. Copies of each will be sent to the director of standards and procedures and the president of the University.
4. A student's suspension will be revoked immediately if he or she is acquitted of the charges or if the case against him or her is dropped.
5. If a student is convicted in a court trial, the director of standards and procedures will consult with the appropriate agency (e.g., Probation Department, prosecutor) and present his recommendation to the University Appeals Board. This procedure is followed whether or not the student was previously suspended.
6. The University Appeals Board will serve as the final review body and shall recommend to:
 - a. Continue or revoke current suspension;
 - b. Suspend the student for an indefinite period of time;
 - c. Permit the student to continue matriculation at the University.
7. The University Appeals Board's recommendation on suspension is transmitted to the president of the University for final action.

D. Summary suspension

Under the special circumstances described in this paragraph, the president and/or his expressly designated representative has the authority to summarily suspend a student. This authority shall be exercised only in those situations in which a student's behavior is allegedly in violation of Section IV B2c and d of the Student Code and where such alleged misconduct occurs on the premises of the University and poses a clear and immediate threat of substantial and/or irreparable injury to persons, and/or such damage to property as is deemed likely to result in major obstruction of educational processes or to constitute a substantial threat to the health and/or life of persons.

1. If summary suspension is invoked, the Office of the President, within 24 hours of invoking the suspension, shall contact the suspended student and present him or her with a written statement of the specific charge against him or her including a summary of the evidence upon which the charge is based. In addition, this statement will advise the student of his or her right to a hearing before the University Appeals Board on or before the fifth class day following the suspension order. The statement will also specify the time and place of the hearing and articulate the elements of due process, found in Section V B3 of the Student Code, to which the student will be entitled at the hearing.
2. The suspended student shall also be advised that he or she has the option of either:
 - a. Requesting the convening of the hearing prior to the fifth day upon 24 hours' written notice to the Chair of the University Appeals Board; or
 - b. Requesting a continuance beyond the fifth class day — said continuance not to exceed five class days. This statement will be delivered personally to the suspended student or if his or her whereabouts are unknown and unascertainable, left at the place of his or her Bowling Green residence.
3. The University Appeals Board will hear the alleged violation in accordance with its rules of

procedure and the elements of due process enumerated in Section V B3 of the Student Code.

4. If the University Appeals Board finds by a preponderance of the evidence that the suspended student committed the act in question, the suspension shall be continued in effect for a period of time to be determined by the University Appeals Board. In no case, however, will the suspension period exceed by more than one year the date of the original suspension order. In reaching its decision, the University Appeals Board will weigh and consider what it determines to be the best interests of both the suspended student and the academic community at large.
5. Should the University Appeals Board find that the student did not commit the act for which he or she was summarily suspended, the suspension shall be revoked and the student immediately reinstated without academic or other penalty.
6. Appeal of the ruling of the University Appeals Board may be taken by the student to the president of the University whose determination on the issue of suspension shall be final. (NOTE: If the president issued the original suspension order, appeal will lie directly with the Board of Trustees.)

VI. THE FOLLOWING SANCTIONS MAY BE IMPOSED:

- A. Sanctions as authorized by, defined in, and applicable to the University Policy on Academic Honesty.
- B. Dismissal from the University for not less than four full quarters following the effective date thereof. Dismissal shall:
 1. Be effective on the date of notice of dismissal;
 2. Prescribe the conditions, including but not limited to the terms of dismissal; and
 3. Prescribe the date and conditions upon which a student may petition for reinstatement.
- C. Suspension from the University for not more than three full quarters following the effective date thereof. Suspension shall:
 1. Be effective on the date of notice of suspension unless otherwise stated in the notice;
 2. Prescribe the conditions, including but not limited to the terms of suspension; and
 3. Prescribe the date and conditions upon which a student may petition for reinstatement.
- D. Strict disciplinary probation for a definite period of time. Recommendations may be made that a student placed on strict disciplinary probation not be eligible:
 1. To participate in any intercollegiate event;
 2. To participate in any major extracurricular activity; or
 3. For loans, grants, and scholarships. (Any of the foregoing restrictions may be waived by the designated University official or adjudicatory body authorized to recommend this sanction if it is determined that circumstances warrant such waiver.)
 4. Upon termination of the period of strict disciplinary probation, the lost privilege or privileges and eligibility are restored automatically, provided the student has complied with all of the terms and conditions of the probation.
- E. Disciplinary probation for a definite period of time. Disciplinary probation is written notice to the student that his or her conduct is in violation of this Code and that more serious disciplinary action may result from further violations of this Code.
- F. A written or oral warning to a student that his or her conduct is in violation of this Code.

- G. Termination of the registration of registered student organizations. Such termination is the discontinuation of the registration of the registered student organization, including the loss of all privileges.
- H. Restitution for damage to, destruction of, or misappropriation of University property or property of any person while on University premises or University-related premises which results from conduct in violation of this Code.
1. Restitution may be ordered by the appropriate University official or University adjudicatory body in connection with, or in lieu of, sanctions which may be imposed in accordance with this Code for damage to, destruction of, or misappropriation of property as defined above.
 2. When restitution is ordered in connection with a sanction, it shall constitute a condition of reinstatement or restoration of privileges or registration to a student organization or restoration of privileges to a student.
 3. When restitution is ordered in lieu of a sanction, failure to make restitution may subject a student or a registered student organization to any sanction which could have been imposed in accordance with this code for damage to, destruction of, or misappropriation of property as defined above.
- I. Conditions of dismissal and suspension.
Any student dismissed or suspended from the University:
1. Shall be denied all privileges accorded a student; and
 2. Shall be required to leave the University premises forthwith, if it is found by the adjudicatory body that the student's continued presence on University premises or University-related premises constitutes a clear danger to the University or threatens to disrupt or disturb the normal educational functions of the University, and to remain away so long as that threat or danger continues except that that individual:
 - a. May appeal to the vice provost for institutional planning and student affairs for entrance to the University premises or University-related premises for specified purpose.
 - b. Has the right to appeal to the appropriate appellate body to remove or reduce the terms of this condition.
 - c. May be required to meet certain conditions upon reinstatement that are recommended by an appellate body to the president or his designee including one or more of the following:
 - 1) Ineligibility to participate in any major activities;
 - 2) Ineligibility to participate in intercollegiate events; or
 - 3) Periodic contact with a designated University staff member or counseling agency.

Upon the merits of the individual case and recommendations from the director of standards and procedures, the president or his designee may waive these conditions at the time of reinstatement.
- J. Failure to observe terms and conditions.
Failure to observe the terms and conditions of dismissal, suspension, or strict disciplinary probation may constitute cause for the extension of the time period during which the terms or conditions were imposed.

VII. STUDENT RECORDS

A. Inspection and review of records

Persons who are attending or have attended Bowling Green State University have the right to inspect and review official records, files, and data directly related to themselves, including materials incorporated into their educational records in accordance with the University Policy on Student Records, excepting that they will not have access to certain educational records as stipulated in Section VII D. Persons currently enrolled as students shall be provided with a notification of the types of educational records which are maintained by Bowling Green State University and the University official(s) who maintain control over such records.

Persons who have obtained matriculation status at Bowling Green State University are for the purpose of this policy considered to be students with access to their educational records under the conditions provided below.

1. A student may request, in writing, the opportunity to inspect and review his or her educational records.
 - a. The request should be made to the chief administrator of the department in which the records are on file or to his or her designee(s).
 - b. A request must specify those records to be inspected and reviewed.
2. A request by a student to inspect and review his or her educational records will be processed within 10 days of receipt of the request.
3. Records will be inspected and reviewed by the student in the presence of the chief administrator of the department in which the records are on file or to his or her designee(s) provided that such requirement does not operate to effectively prevent the exercise of rights by the student under this section.
 - a. Records may not be changed or deleted during the process of inspection and review.
 - b. The student shall be entitled to a response to a reasonable request for explanations and interpretations of his or her educational records.
 - c. Upon written request, the student shall be provided with a copy of his or her educational records at a fee not to exceed the actual cost to the institution of reproducing such records provided that the fee does not effectively prevent the student from exercising his or her rights to inspect and review his or her records.
 - d. The student shall be advised of his or her right to request that the educational records be amended.

B. Request to amend educational records

1. A student who believes that information contained in his or her educational records is inaccurate or misleading or otherwise is in violation of his or her privacy or other rights may request that the records be amended.
 - a. The request should be made in writing to the chief administrator of the department in which the records are on file or to his or her designee(s).
 - b. A request must specify those educational records to be amended and the reason(s) for amending the educational records.
2. A request by a student to amend information contained in his or her educational records shall be processed within 10 days of receipt of the request.
 - a. The chief administrator or his or her designee shall review the request and shall decide whether to amend the educational records.

- b. The student shall be informed in writing of the disposition of the request and the reason(s) for the disposition.
- c. The student will be advised of his or her right to a hearing under Section VII C in the event of a refusal to amend the educational records.

C. Hearing to challenge content of records

Students shall have an opportunity for a hearing to challenge the content of their educational records, to insure that such records are not inaccurate, misleading, or otherwise in violation of their privacy or other rights.

1. A student may request, in writing, an opportunity for a hearing to challenge the content of his or her educational records.
 - a. The request for the hearing should be made to the president or his designee(s).
 - b. A request for the hearing must:
 - 1) Identify in specific terms the portion(s) of the educational records to be challenged;
 - 2) State the reason(s) for challenging the portion(s) of the educational records so identified.
2. Hearing procedures
 - a. The hearing will be conducted by the designee(s) of the president, but in no case shall the hearing officer have a direct interest in the outcome of the hearing.
 - b. The hearing will be granted within 15 days after receipt of the written request for a hearing.
 - c. The chief administrator responsible for the educational records under challenge or his or her designee(s) shall represent the records in the hearings.
 - d. Prior to the hearing, the hearing officer shall notify the student and the chief administrator or his or her designee(s) (that person representing the records) of the time, place, and date of the hearing and of the specific portion(s) of the student's educational records to be challenged in the hearing.
 - e. The hearing shall be limited to a consideration of that specific portion(s) of the student's educational records being challenged.
 - f. The student may be assisted by an adviser of his or her choice, including an attorney.
 - g. The student and institutional official representing the educational records have the right to present evidence and witnesses directly related to that portion(s) of the educational records being challenged.
 - h. The hearing officer shall keep a record of the hearing.
 - i. The hearing officer must provide the student with a written notification of the disposition of the challenge including a summary of the evidence and the reason(s) for the disposition.
 - j. The decision shall be based solely upon the evidence presented at the hearing.
 - k. Remedies
 - 1) The records may be amended; or
 - 2) The records may stand in which event the student shall be notified of his or her right to place in the educational records a statement commenting upon the information in the educational records and/or setting forth any reasons for disagreeing with the decision.

D. Records not subject to inspection and review

The following records are not subject to inspection and review:

1. Financial records of the parents of the student or any information contained therein.
2. Confidential letters and statements of recommendation, which were placed in the educational records prior to January 1, 1975, provided that the letters and statements are used only for the purposes for which they were specifically intended, and the letters and statements were solicited with a written assurance of confidentiality, or sent and retained with a documented understanding of confidentiality.
3. Confidential letters or statements of recommendation, which were placed in the educational records after January 1, 1975, and for which the student has signed a waiver of access:
 - a. With respect to admission to an educational institution;
 - b. With respect to any application for employment; or
 - c. With respect to the receipt of an honor or honorary recognition.
4. Records of instructional, supervisory, and administrative personnel and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible or revealed to any other person except a substitute.
5. Records and documents maintained by Campus Safety and Security provided:
 - a. Educational records are not disclosed to personnel of Campus Safety and Security;
 - b. The records and documents of Campus Safety and Security are kept apart from the educational record;
 - c. The records are maintained solely for law enforcement purposes; and
 - d. The records are not made available to persons other than law enforcement officials of the same jurisdiction.
6. Records of a person who is employed by the institution in a position not limited to student employees when such records are made and maintained in the normal course of business, relate exclusively to such persons in that person's capacity as an employee, and are not available for use for any other purpose.
7. Records created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional or paraprofessional capacity, or assisting in that capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student, and are not available to anyone other than persons providing such treatment; provided, however, that such records can be personally reviewed by a physician or other appropriate professional of the student's choice.
8. Records which contain only information relating to a person after that person is no longer a student.

E. Disclosure of personally identifiable information from educational records

1. *Information disclosed with student's consent.*
A student's educational records or personally identifiable information contained therein shall not be disclosed without the student's written consent except as provided in Section VII E2.
 - a. Consent shall be given by the student in writing and be signed and dated by the student.
 - b. The written consent shall include:
 - 1) The specific records to be disclosed;
 - 2) The reason(s) for such disclosure; and
 - 3) The party or class of parties to whom such records will be disclosed.

- c. A copy of the records to be disclosed will be provided to the student upon request.
 - d. Information disclosed shall include a written statement that the party to whom the information is disclosed shall not permit another party to have access to such information without the consent of the student, except that the personally identifiable information which is disclosed to an institution, agency, or organization may be used by its officer, employees, and agents, but only for the purposes for which the disclosure was made.
2. *Disclosure of personally identifiable information from a student's educational records without a student's consent.*
Educational records or personally identifiable information may be disclosed without the student's written consent under the following circumstances only.
- a. Directory information (student's name, local address, and telephone listing; home address, and telephone listing; parent's or legal guardian's name, address, and telephone listing; class schedule; date and place of birth; major field of study; class standing; participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received; and the most recent previous educational institution attended by the student) after public notice is given of the categories of information to be released and the student is given a reasonable period of time to inform the institution that any or all of the categories of information should not be designated as directory information with respect to that student. Disclosure of directory information from the educational records of an individual who is no longer in attendance may be made without following procedures outlined in this section.
 - b. To other school officials, including teachers within the educational institution who have legitimate educational interests (Section VII G).
 - c. To officials of other schools upon request, in which the student seeks or intends to enroll, provided the student receives a copy of the records, if desired, and has an opportunity to a hearing under Section VII C.
 - d. To authorized representatives of the comptroller general of the United States; the secretary of Health, Education, and Welfare; the commissioner of education; the director of the National Institute of Education; the assistant secretary for education; or state educational authorities which may be necessary in connection with the audit and evaluation of federally supported educational programs, or in connection with the enforcement of, or compliance with, the federal legal requirements which relate to these programs.
 - e. To a party who is the source of, or administers financial aid applied for, or received by the student, when necessary to determine the eligibility of the student for financial aid, to determine the amount of financial aid, to determine the conditions which will be imposed regarding the financial aid, or to enforce the terms or conditions of the financial aid.
 - f. To state and local officials or authorities to whom such information is specifically

required to be reported or disclosed pursuant to the Ohio Revised Code adopted prior to November 19, 1974.

- g. To organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, or administering predictive tests, administering student aid programs, and improving instruction, provided that such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organizations and provided such information will be destroyed when no longer needed.
 - h. To accrediting organizations in order to carry out their accrediting functions.
 - i. To appropriate parties in a health or safety emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons considering such factors as:
 - 1) The seriousness of the threat to the health or safety of the student or other persons;
 - 2) The need for the information to meet the emergency;
 - 3) Whether the parties to whom the information is disclosed are in a position to deal with the emergency; and
 - 4) The extent to which time is of the essence in dealing with the emergency.
 - j. To comply with a judicial order or a lawfully issued subpoena, upon condition that a reasonable effort is made to notify the student of all such orders or subpoenas in advance of the compliance therewith.
 - k. To parents of a dependent student of such parents, as defined in Section 152 of the Internal Revenue Code of 1954. For the purpose of this section, undergraduate students are assumed to be dependent and graduate students are assumed to be independent unless the University is otherwise notified by the student or parent.
3. *Record of information released.*
Each division and/or department shall maintain a record, kept with the educational records of each student, which will indicate all parties, except those excluded herein, which have requested or obtained access to a student's educational records maintained by the division and/or department. Such records will indicate specifically the legitimate interest that each party has in obtaining this information. Such records may be inspected by the student, by the institutional official responsible for the custody of such records or his or her assistant, and by other persons authorized by Section VII E2b for the purpose of auditing the recordkeeping procedure. This section does not apply:
- a. To requests by or disclosure to a student;
 - b. To requests by or disclosure to school officials under Section VII E2b;
 - c. To request for or disclosure of directory information; and
 - d. If there is written consent of the student.
4. The University retains the right to review all requests for the release of information and to deny the release of such information to persons other than the student except when required to do so by law, a judicial order, or a subpoena.

F. Waiver of the right to access to certain educational records

- 1. A student or a person applying for admission may, in writing, waive his or her right to access

to confidential letters or statements of recommendation described in Section VII F2, except that such waiver shall apply to recommendations only if:

- a. The applicant or student is, upon request, notified of the names of all persons making confidential recommendations; and
- b. Such recommendations are used solely for the purpose for which they were specifically intended.

Such waivers may not be required as a condition for admission to, or receipt of any other services or benefits from Bowling Green State University.

2. The student may, under Section VII F1, waive his or her right of access to confidential recommendations:
 - a. Respecting admission to any educational agency or institution;
 - b. Respecting an application for employment; and
 - c. Respecting the receipt of an honor or honorary recognition.
3. A waiver under this section may be revoked in writing with respect to any actions occurring after the revocation.

G. Disclosure of personally identifiable information to University officials

1. Personally identifiable information may be disclosed to members of the University faculty, staff, or to others who through assignment or appointment act on behalf of the University as needed to fulfill their normal educational function(s), or as might otherwise be required or permitted by this policy, by policies of the Board of Trustees, or by applicable federal or state laws.
2. Access to personally identifiable information by faculty, staff, or by others who through assignment or appointment act on behalf of the University must be based upon legitimate educational interests including activities related to the administrative function of the University, to teaching, research, advising, committee membership, maintenance of records, preparing correspondence and reports directly related to students, preparing statistical reports, transmittal of records, evaluation, or as might otherwise be needed to fulfill the conditions of this policy, the policies of the Board of Trustees, or applicable federal and state laws.

H. Types and location of educational records and University officials responsible for records

1. *Director of admissions — Admissions Office.* Application for admissions, high school transcripts, college transcripts, ACT scores, letters of recommendation, correspondence, and BGSU student profiles.
2. *Bursar — Office of the Bursar.* Financial records of the students.
3. *College and department offices — college deans, department chair, and academic advisers* (may possess all or part of the records noted below). Application for admission, applications for graduate assistantships, letters of recommendation, transcripts, personal information sheets, grades, degree plans, forms for course withdrawal, drop-add forms, change of grades, college transfer, ACT profile, academic appeal forms, senior check list, information related to any incident of academic dishonesty, results of proficiency tests, correspondence, adviser records, degree programs progress forms, evaluations, graduate assistant contracts, graduate comprehensive examinations, scores on standardized tests,

scholarship application letters, and student employee records.

4. Graduate College — vice provost and dean of the Graduate College.

- a. Copy of application for admission form: Social Security number, date of birth, gender, race, citizenship status, veteran status, foreign language facility, and educational history.
 - b. Academic grade card: Grade and credit hours earned for individual courses, accumulative grade point average, major field, faculty adviser, and degrees earned.
 - c. Award of employment for assistantship or fellowship: Job title, duration of contract, and stipend level.
 - d. Scores on standardized tests: Verbal, quantitative, and advanced test scores on graduate study in business.
 - e. Tentative degree program form: List of all graduate courses and degree requirements as they are expected to be fulfilled at the time of beginning the degree program.
 - f. Degree progress form: Documentation of dates when a student completes thesis or dissertation requirements and comprehensive examinations.
 - g. Miscellaneous correspondence: Notification of placement on academic probation or removal therefrom, responses to petitions generated by individual students and faculty members, copies of forms used to maintain records (e.g., removal of incomplete grades), and responses to various written inquiries from a student.
- #### **5. Computational Services — director of computational services.**
- Personally identifiable information, information related to progress toward a degree, adviser's name, parents' names and address, date and place of birth, race, residency status, information related to the student's academic program, high school data, activities, honors and awards received, standardized test scores, financial aid, information related to admissions, and accounts receivable data.
- #### **6. Office of the Director of Standards and Procedures — director of standards and procedures.**
- Disciplinary records and college transfer clearance forms.
- #### **7. Financial Aids — director of financial aid.**
- Information related to the application for and receipt of financial aid.
- #### **8. International Student Programs — director of international programs.**
- Information related to application for and admission to the University of international students.
- #### **9. Placement — director of placement.**
- Information related to placement including data sheet, letters of reference, transcript, evaluations, certifications and autobiographical sketch.
- #### **10. Office of the Registrar — registrar.**
- Personally identifiable information, information related to progress toward a degree, transcripts, standardized test scores, and registration records.
- #### **11. Residence Life — assistant vice provost for residence life.**
- Information related to the application for and the receipt of resident assistantships, evaluation of resident assistants, personal data and information cards, and application for and receipt of University housing.

12. *Student Employment — director of financial aid.*

Information related to the application for and receipt of student employment, financial aid information, and evaluation of student employees.

I. Maintenance of records

1. Separate official files shall be maintained as follows:
 - a. Academic records, supporting documents, and general educational records;
 - b. Records of disciplinary proceedings;
 - c. Medical, psychiatric, and counseling reports;
 - d. Financial records;
 - e. Employment records;
 - f. Placement records
2. Records such as grade books, advising files, recommendations, and counseling notes may be kept by members of the faculty and administrative staff.
3. Expulsion may be recorded on a student's permanent academic record to reflect a severing of the academic career. Records of any student's disciplinary action may be maintained only in the files of the director of standards and procedures and the appropriate judicial body. Such records may be maintained for five years after clear discontinuation from the University at which time such records shall be closed.
4. No student record shall be preserved beyond graduation or other final departure from the University except as follows:
 - a. Academic records, supporting documents, and general educational records, may be retained indefinitely subject to the limitations on disclosure previously stated.
 - b. Financial records may be maintained so long as needed.
 - c. Medical, psychiatric, and counseling records may be retained indefinitely subject to the limitations on disclosure previously stated.
 - d. Records of extracurricular activities may be retained for five years after final departure from the University.
 - e. Employment and placement records may be retained indefinitely subject to the limitations on disclosures previously stated.
5. No record shall be destroyed:
 - a. For which there is an outstanding request by a student to inspect or review the record pursuant to Section VII A;
 - b. Which is placed in the educational record by the student pursuant to a hearing under Section VII C2 as long as the record or contested portion thereof is maintained by the University; and
 - c. Which is a record of access pursuant to Section VII E3 as long as the educational record to which the record of access pertains is maintained by the University.

VIII. STUDENT AFFAIRS

In student affairs certain standards must be maintained if the freedom of students is to be preserved.

A. Freedom of association

Students are free to organize and join associations to promote their common interests, providing these associations are organized for legal purposes and do not conflict with the University's educational objectives.

1. Organizations

The Organizations Board of the Student Government Association will, subject to review by the Student Senate members, register social, service, special interest, and professional organizations based on the following policy:

- a. Affiliation with an extramural organization will not of itself disqualify a student organization from institution registration.
- b. Campus advisers who are members of the faculty or staff are required for any student organization receiving University funds. They are encouraged for all other organizations. Campus advisers may counsel organizations in the exercise of responsibility, but they will not have authority to control the policy of the organization.
- c. Student organizations will be required to submit a statement of purpose, criteria for membership, rules of procedures, and a current list of officers. They will not be required to submit a membership list as a condition of institutional registration.
- d. Organizations, including those affiliated extramurally, must be open to all students without respect to race, creed, national origin, age, sex, political views, or handicap.

B. Freedom of inquiry and expression

1. Students and student organizations may express their opinions both publicly and privately. They are free to support causes in either a planned or spontaneous manner, providing they do not disrupt the regular and essential operation of the institution. Students abuse this right when they damage property or interfere with the rights of others.
2. The University Space Assignments Office is available to register a planned activity and to designate indoor or outdoor locations where such assemblies can be held. Through registration, the University will endeavor to provide adequate facilities and security.** It is the responsibility of organizers and/or sponsors of any meeting, rally, procession, or demonstration to insure that the activity does not disrupt other University functions.
3. A disturbance is defined as follows:
 - a. Any activity or conduct substantially interfering with or disrupting the lawful activity of others.
 - b. Any activity or conduct accompanied by a clear and present danger of personal injury or property damage.
 - c. Any activity or conduct which violates any regulations enumerated in Section IV B of this code.
4. Right of advocacy
 - a. Members of the University community are free to advertise specific causes and distribute literature within the bounds set by pertinent public laws, regulations adopted by the residence halls, and the provisions of this Code.
 - b. Members of the University community may solicit funds only for charitable and/or non-profit causes. These activities may be conducted by any orderly means which do not disrupt the operation of the University (Section VIII B3).
 - c. Individuals and groups are encouraged to exercise their constitutional freedoms of speech and assembly in both private and public expression.
 - d. With the freedoms of speech and assembly go the responsibilities of avoiding libel, indecency, undocumented allegations, attacks on personal integrity, harassment, and innuendo.

**Although normal police protection is assumed at all times, groups registering demonstrations may request special police attention by advising Campus Safety and Security of such activities in advance. For many practical reasons absolute integrity of person and property cannot be guaranteed — especially in a mob or crowd situation.

C. Guest speakers

1. It is the policy of the University to foster a spirit of free inquiry and to encourage the timely discussion of the broad range of issues provided that the views expressed are stated openly and are subject to critical evaluation. Within our prevailing standards of decency and honesty, this policy shall be construed to mean that no topic or issue is too controversial for intelligent discussion on the campus. Restraints on free inquiry should be held to that minimum which is consistent with preserving an organized society in which change is accomplished by peaceful, democratic means.
2. To this end, a recognized student organization may invite guest speakers to the campus to address meetings subject only to the following provisions:
 - a. Space for the event must be registered with the Office of Space Assignments if University facilities and services are to be used. Individuals or registered student organizations interested in planning an event are urged to contact a faculty member adviser or the assistant vice provost for student activities for assistance in making these arrangements.
 - b. Sponsorship must be by a registered student organization.
 - c. It must be made clear that the student organization, not the University, is extending the invitation and that any views the speaker may express are his or her own and not those of the University.
 - d. The student organization must take whatever steps are necessary to insure that the meeting is conducted in an orderly manner.
 - e. The student organization is encouraged to provide means for critical evaluation of the speaker's view, which might include an open question period following the speaker's presentation.
 - f. The student organization must comply with any and all conditions for the orderly and scholarly conduct of the meeting as prescribed by Section IV B as well as the Ohio Revised Code.

IX. CLASS ATTENDANCE***

The faculty believes that classroom activities are essential to learning and to the application of knowledge. The student is responsible for knowing and meeting all course requirements, including tests, assignments, and class participation, as indicated by the course instructor. The instructor has no obligation to give make-up examinations or to review other class work missed by a student as a result of absence.

Although an instructor may accept a student's cause for an absence as a basis for making up major tests and examinations, the responsibility for making up work missed during absences rests with the student.

X. AMENDMENT PROCEDURE

- A. Any member of the University community may recommend a change of this Code to the vice provost for institutional planning and student affairs. If it is endorsed, the proposal and any appropriate recommendations will be forwarded to the president. The recommended change shall be in the form of a written statement of the proposed amendment.
- B. The University president will present the proposed amendment to the Board of Trustees.
- C. If the amendment is adopted by the board, it will be adopted into the Code and officially announced to the entire University community.

APPENDIX I

UNIVERSITY POLICY ON ACADEMIC HONESTY

Objectives

1. To communicate to all members of the University community the conviction of the University and its faculty that cheating and plagiarism are destructive to the central purposes of the University and are universally disapproved.
2. To state procedures for accomplishing the above objective by students, faculty, academic deans, and the University Academic Honesty Committee.

Procedures

1. Both students and faculty should initiate discussions which will lead to the elevation of University mores on cheating and plagiarism.
2. Each faculty member should include in his or her introduction to a course:
 - a. A statement of his or her definitions and policies with regard to cheating and plagiarism;
 - b. Statements about examinations within the specific course, e.g., frequency, kinds, importance; and
 - c. The statement that every instance of dishonesty as defined in (a) will be reported as described elsewhere in this policy.
3. Insofar as possible, temptations to potential violators should be removed. Specific suggestions include:
 - a. Only new tests should be used. Samples of course tests may be filed in the University Library. The Library will receive, file, and make available to students through the closed reserved system all tests forwarded by the teaching faculty but will not actively procure or permanently retain such tests. (Unless otherwise requested by a teaching department the normal retention period will not exceed five years.)
 - b. When test items are similar to those used in the past, strict security should be observed so that copies of such items are not taken from the test area.
 - c. Testing of large groups should be held in places other than rooms with high density seating.
 - d. There should be provision of sufficient proctors for the group being tested. Assistance should be provided by instructors and, where necessary, by student assistants.
4. Faculty members should exemplify the highest levels of academic honesty at all times.
5. Cases of academic dishonesty shall be reported to the dean of the college in which the student is enrolled, to the dean of the college in which the course is taught, and to the vice provost for institutional planning and student affairs, either by the instructor or by a student in the class where the incident occurs. A memorandum stating the nature of the report and the disposition of the case shall be sent to the Academic Honesty Committee and to the vice provost for institutional planning and student affairs by the student's dean. The student shall be informed in writing of the charges made and of his or her rights of due process in all hearings related to the matter.
6. Penalties for offenses are defined as follows:

Expulsion	Dismissal with no provision for readmission
Dismissal for a stated period of time	After the time has elapsed, the student may apply for readmission on same basis as any student entering from another school.
Suspension for a stated period of time	May not register again until stated period of time has elapsed. The student is subject to all regulations dealing with his status at the time of suspension, e.g., academic warning.
Suspended penalty	Where any of the three above stated have been totally or partially suspended, a student who subsequently violates the academic honesty policy is subject not only to

the penalty prescribed for that subsequent offense but also to the suspended portion of the previously imposed penalty.

Failure in course	The student should be withdrawn from the course and a grade of WF assigned.
Failure in part of a course (test, paper, etc.)	In accordance with practices of instructor.
Warning	Assigned by the academic dean. Facts are recorded in student's record.

Each penalty shall be considered to be a punishment of greater degree than the punishments listed below it (assuming dismissal time is at least as long as suspension time).

7. Penalties for first offenses shall be in accordance with the following table:

Offense	Minimum Penalty	Maximum Penalty	Original Jurisdiction
Cheating or plagiarism on examinations or other assignments in a course*	Failure on examination or assignment	Failure in course	Instructor in course
Stealing, duplicating, or selling examinations or examination books to be given	Suspension for two quarters**	Expulsion**	Student's academic dean
Substitution in class for a significant period without permission	Warning (for substitute) Failure in course (for enrollee)	Suspension for one year	Student's academic dean
Substitution in an examination	Suspension for two quarters**	Dismissal for one year**	Student's academic dean
Plagiarism or other forms of dishonesty, by a graduate student, associated with nonformal course material (e.g., thesis, dissertation, preliminary or comprehensive examination, field experiences)	Suspension for two quarters**	Expulsion**	Graduate dean in consultation with instructor/faculty member responsible
Other cheating	Warning	Suspension for two quarters**	Student's academic dean

For second offenses, the maximum penalty may be increased to a longer period of suspension or dismissal or to a greater degree of punishment. One year is defined as four consecutive quarters.

8. In any case in which the maximum penalty for the alleged offense is less than suspension, the instructor having original jurisdiction shall determine the penalty. In all such cases, the faculty member shall confer with

the student before assessing the penalty. The instructor shall notify the student's academic dean of the penalty imposed. The first 10 days from the date on which the student receives notice of this penalty will be a transitional period during which the student may confer with the dean in question concerning his or her case.

In any case in which the penalty for the alleged offense is suspension, dismissal, or expulsion, the academic dean having original jurisdiction shall be required before making a decision to inform the vice provost for institutional planning and student affairs that the student has been charged with the offense, and notify the student of the charges and of the opportunity for a hearing. The student shall have five days from receipt of the notice to request a hearing with the dean. The vice provost for institutional planning and student affairs shall supply the academic dean having jurisdiction with any relevant information and may make a recommendation as to the disposition of the case. A penalty of suspension, dismissal, or expulsion is to be determined by the academic dean having original jurisdiction.

The student's academic dean shall in all cases of academic dishonesty notify a student of the penalty imposed. All penalties shall begin immediately upon notification of the student in writing by the academic dean of its assessment unless appealed. If appealed, the assessment is to be withheld until completion of the appeals process. If the original decision is upheld, the penalty will be effective as of the original date of notification. If, during the period of the hearing or the appeal, a quarter or term ends, grades and credits of the student shall be withheld pending final resolution of the case.

9. The University Academic Honesty Committee shall have appellate jurisdiction in cases of academic dishonesty and shall establish its own procedural rules. The student's academic dean shall inform the student in writing of his or her right to appeal as described below. The student will have 10 days from the date on which he or she receives notice of the penalty to file an appeal. An appeal may be based on new evidence or on procedural errors in the proceedings, leading to the assessment of the penalty. Appeals are to be sent by the student in written form to the committee, with copies to be filed with the dean of the college in which the student is enrolled, and the dean of the college in which the course is taught. The committee shall have authority to initiate review of any case, if it so desires, and shall have authority to conduct an investigation of a case de novo. The Academic Honesty Committee shall have the power to suspend a penalty in whole or in part and to impose appropriate conditions as a corollary. This power may be exercised either upon recommendation of the dean who imposed the penalty or in the course of the review of a case by the committee. Final appeal jurisdiction in any cases rests with the president of the University.
10. When violations of academic honesty are such as to escape notice at the time of their commission but are discovered at some future time, penalties may be imposed at the time the violation is discovered. The procedures governing such penalties are the same as described above. The statute of limitations on all such offenses, except those involving graduate theses or dissertations, shall be one calendar year from the date of graduation of the person involved.

Approved by the Faculty Senate January 5, 1971, on the basis of the report of the Academic Honesty Committee. Amended by the Faculty Senate February 1, 1977, February 6, 1979, and May 1, 1979.

*Purchase of research papers or employment of a person or agency to prepare such papers is considered by the Academic Honesty Committee to be equivalent to plagiarism.

**All or part of penalty may be suspended.

FINAL EXAMINATION POLICY

This is the official policy of the University on final examinations as revised by the Faculty Senate on November 29, 1977, and authorized by the president on February 14, 1978.

1. A final examination should be given in all courses where appropriate.
2. Consistent with traditional principles of academic freedom, the faculty member or group responsible for a course shall determine whether a final examination is or is not appropriate (such as in graduate seminars, PSI instruction, etc.)
3. Ohio Board of Regents specifies that an academic quarter consists of 11 weeks. The eleventh week of the quarter at Bowling Green State University is reserved for the scheduling of final examinations.
4. Final examinations shall be administered at the times scheduled for that purpose, except with specific permission of the provost.
5. In those courses where a final examination is deemed inappropriate, faculty shall conduct other appropriate course-related activities during the period scheduled for final examination.
6. Department chairs shall be responsible for implementing this policy.

Permission of the Office of the Provost may be secured by providing a memorandum in writing stating the time for which the examination is scheduled, the time at which it is desired to offer it, and the reason for the change. The memorandum should also certify that the students involved agree to the change and that provision has been made for make-up in all cases of conflict. This memorandum, endorsed by the chair of the department and dean of the college involved, should be forwarded to the Provost's Office. An immediate response by telephone will be confirmed in writing by the next day. Permission will not be granted to reschedule examinations except during the designated final examination period. No permission from the Provost's Office is required in order to provide a make-up examination for one or two students on the grounds of conflict or other urgent reasons for being absent from the final examination.

ADMINISTRATION AND FACULTY

BOARD OF TRUSTEES

Norman J. Rood, Cygnet, *Vice President*
 S. Arthur Spiegel, Cincinnati
 John F. Lipaj, Brecksville
 Frazier Reams Jr., Toledo
 Charles E. Shanklin, Milford Center
 Albert E. Dyckes, Columbus, *President*
 M. Shad Hanna, Bowling Green
 Robert C. Ludwig, Marion
 William F. Spengler Jr., Toledo
 Richard A. Edwards, *Secretary*

Term Expires
1980
1981
1982
1983
1984
1985
1986
1987
1988

ADMINISTRATION

Hollis A. Moore, President
 Michael R. Ferrari, Provost and Executive Vice President
 Richard A. Edwards, Vice President and Assistant to President
 James E. Hof, Vice President for Development and Alumni Affairs
 George Postich, Vice President for Operations
 Richard Eakin, Vice Provost for Institutional Planning and Student Affairs

ACADEMIC ORGANIZATION

Provost's Area

Michael R. Ferrari, Provost
 Ramona Cormier, Associate Provost
 Richard Eakin, Vice Provost for Institutional Planning and Student Affairs
 Charles Means, Vice Provost for Educational Development
 Ronald Marso, Vice Provost for Continuing Education, Regional and Summer Programs

Academic Deans

Algalee P. Adams, Dean, Firelands College
 Dwight F. Burlingame, Dean of Libraries and Learning Resources
 David G. Elsass, Dean, College of Education
 John G. Eriksen, Dean, College of Arts and Sciences
 Karl E. Vogt, Dean, College of Business Administration
 Kenneth A. Wendrich, Dean, College of Musical Arts

**FACULTY

Hollis A. Moore, 1970. A.B., Baylor University; Ed.D., University of Texas. President, Professor of Education.
Algalee P. Adams, 1977. B.S. Ed., M.A., University of Missouri; Ph.D., Pennsylvania State University. Professor of Humanities; Dean, Firelands College.
David W. Addington, 1968. B.A., Palos Verdes College; M.A., University of California; Ph.D., University of Iowa. Professor of Speech.
Hassoon S. Al-Amiri, 1964. Mathematics License, Higher Teachers Training College, Iraq; M.S., Ph.D., University of Michigan. Professor of Mathematics and Statistics.
Janice M. Alberghene, 1979. B.A., University of Massachusetts. Instructor in English.
James H. Albert, 1979. B.S., Bucknell University; M.S., Ph.D., Purdue University. Assistant Professor of Mathematics and Statistics.
William D. Alexander, 1946. B.S.M., Mt. Union College; M.S., North Texas State University. Professor of Music Education.
John P. Allen, 1974. B.A., M.Ed. University of Arizona; Ph.D., Purdue University. Assistant Professor of Education.
Judith Warniment Allen, 1974. B.S., M.A., Bowling Green State University. Ph.D., University of Toledo. Instructor in Education.
Warren S. Allen, 1946. B.M., Southwestern College; M.M., University of Michigan. Professor of Music Performance Studies.

**Date after name indicates first full-time appointment.

***Service on the Bowling Green State University faculty not continuous.

Loreto P. Alonzi, 1978. B.A., Loyola University; M.A., Ph.D., University of Iowa. Assistant Professor of Economics.

Lluda L. Alssen, 1962. Diploma, University of Paris; M.A., University of Nebraska; Ph.D., University of Michigan. Professor of German and Russian.

Patrick L. Alston, 1971. B.A., St. Patrick's College; M.A., St. Paul's College; Ph.D., University of California. Professor of History.

Kenneth M. Alvares, 1971. B.A., Indiana University; M.A., Ph.D., University of Illinois. Professor of Psychology.

Beverly Amend, 1969. B.S.H.E., West Virginia University; M.Ed., Arizona State University; Ed.S., Bowling Green State University. Assistant Professor of Home Economics.

Mary L. Amos, 1969. B.S., North Texas State University; M.A.L.S., University of Michigan. Assistant Professor of Library and Educational Media.

Hanns K. Anders, 1957. B.A., Oberlin College; M.S., Ph.D., Ohio State University. Professor of Chemistry.

Dennis M. Anderson, 1968. B.A., Oberlin College; M.A., Ph.D., Northwestern University. Assistant Professor of Political Science.

Roger C. Anderson, 1967. B.A., University of Minnesota; M.A., Ph.D., University of Wisconsin. Associate Professor of Political Science.

Thomas D. Anderson, 1964. B.A., M.A., Kent State University; Ph.D., University of Nebraska. Professor of Geography.

A. Rolando Andrade, 1977. B.A., B.D., Phillips University; M.A., Ph.D., University of Oklahoma. Assistant Professor of Ethnic Studies.

Charles H. Applebaum, 1969. B.S., Case Western Reserve University; M.S., Ph.D., Rutgers University. Associate Professor of Mathematics and Statistics.

Susan Tamke Arpad, 1975. B.A., Tulane University; M.A., Louisiana State University; Ph.D., University of Delaware. Associate Professor of Popular Culture.

Mark F. Asman, 1966***. B.S., M.B.A., Bowling Green State University; Ph.D., University of Missouri. Associate Professor and Chair of Accounting and Management Information Systems.

Thomas W. Attig, 1972. B.A., Northwestern University; M.A., Ph.D., Washington University. Associate Professor of Philosophy.

Gerald Auten, 1977. B.A., Hope College; M.A., Ph.D., University of Michigan. Assistant Professor of Economics.

Thomas C. Bach, 1965. B.S., M.Ed., Bowling Green State University. Assistant Professor of Industrial Education and Technology.

Pietro Badia, 1963. B.A., M.A., Kent State University; Ph.D., Adelphi University. Professor of Psychology.

Walter W. Baker, 1967. B.M., M.M., Oberlin Conservatory of Music; D.M.A., University of Michigan. Associate Professor of Music Performance Studies.

Frank Baldanza Jr., 1957. B.A., Oberlin College; M.A., University of Chicago; Ph.D., Cornell University. University Professor; Professor of English.

Gioacchino Balducci, 1968. Ph.D., University of Naples. Associate Professor of Romance Languages.

Joseph K. Balogh, 1949. B.S., Pennsylvania State University; Litt.M., Ph.D., University of Pittsburgh. Professor of Sociology.

Ron F. Bandy, 1968. B.F.A., Ohio University; M.F.A., University of Florida. Associate Professor of Art.

Lester E. Barber, 1968. B.A., St. Lawrence University; M.A., Cornell University; Ph.D., University of Arizona. Professor and Chair of English.

Susan A. Barber, 1973. B.A., St. Lawrence University. Instructor in Health and Physical Education.

Raymond F. Barker, 1964. B.A., Texas Western University; M.B.A., Ph.D., University of Texas. Professor of Marketing.

- J. Robert Bashore**, 1948. M.A., Bowling Green State University; B.S., Ph.D., University of Wisconsin. Professor of English.
- Nancy Jean Bateman**, 1971. B.S., University of North Carolina; M.S., University of Oregon; Ph.D., University of Iowa. Associate Professor of Physical Education and Recreation.
- Dennis E. Bauer**, 1972. B.S., M.A., Western Kentucky University; Ed.D., University of Nebraska. Associate Professor of Business Education.
- William D. Baxter**, 1966. B.A., Phillips University; Ph.D., University of Kansas. Associate Professor of Biological Sciences.
- David P. Beach**, 1978. B.S., M.S., Iowa State University; Ph.D., University of Missouri. Assistant Professor of Industrial Education and Technology.
- Robert C. Beard**, 1967. B.S., M.Ed., Bowling Green State University. Assistant Professor of Physical Education and Recreation.
- Doris J. Beck**, 1974. B.S., Bowling Green State University; M.S., Ph.D., Michigan State University. Assistant Professor of Biological Sciences.
- James Beckett III**, 1975. B.A., M.A., Ph.D., Southern Methodist University. Associate Professor of Applied Statistics and Operations Research.
- Burton Beerman**, 1970. B.M., Florida State University; M.M., D.M.A., University of Michigan. Associate Professor of Music Composition and History.
- Bruce Bellard**, 1948. B.S.Ed., M.Ed., Bowling Green State University. Professor of Health and Physical Education.
- Thomas L. Bennett**, 1966. B.S., Southeast Missouri State University; M.Ed., Ph.D., University of Missouri. Associate Professor of Education.
- John E. Bentley**, 1972. B.S., University of Alabama; M.A., George Peabody College, A.Mus.D., University of Michigan. Professor of Music Performance Studies.
- Gerald R. Bergman**, 1973. B.S., M.Ed., Ph.D., Wayne State University. Assistant Professor of Education.
- Stewart Berry**, 1956. B.S.Ed., M.A., University of Alabama; Ed.D., University of Cincinnati. Professor of Education.
- Evan S. Bertsche**, 1968. B.A., Taylor University; M.A., Indiana University. Associate Professor and Director of Social Work Program.
- Edwin R. Betts**, 1962. B.M., M.M., Eastman School of Music. Professor of Music Performance Studies.
- James H. Bissland**, 1976. B.A., Cornell University; M.A., University of Massachusetts; Ph.D., University of Iowa. Associate Professor of Journalism.
- Dolores A. Black**, 1963. B.S., Eastern Michigan University; M.Ed., Bowling Green State University. Associate Professor of Physical Education and Recreation.
- Robert B. Blackwell**, 1969. A.B., Western Michigan University; M.A., Ed.D., University of Northern Colorado. Associate Professor of Special Education.
- Mary Blanton**, 1977. B.S., University of Georgia; M.S., University of Oregon. Assistant Professor of Physical Education and Recreation.
- Josef Blass**, 1970. M.A., Warsaw University, Poland; M.A., Ph.D., University of Michigan. Associate Professor of Mathematics and Statistics.
- Elliott L. Blinn**, 1968. B.S., University of Pittsburgh; M.S., Ph.D., Ohio State University. Professor of Chemistry.
- Ario D. Boggs**, 1949. B.S., Marietta College; M.S., Purdue University; Ph.D., Ohio State University. Professor of Chemistry.
- Anna Belle Bogner**, 1975. B.M., Oklahoma State University; M.M., Bowling Green State University. Instructor in Music Education.
- Edwin C. Bomeli**, 1956. B.S.B.A., Ohio State University; M.A., Butler University; Ph.D., Michigan State University; Certified Public Accountant, Ohio, Indiana. Professor of Accounting and Management Information Systems; Director of Graduate Studies, College of Business Administration.
- Donald L. Boren**, 1976. B.S., Union University; J.D., University of Tennessee. Associate Professor of Legal Studies.
- Charles R. Boughton**, 1961. B.A., M.A., University of Illinois; Ph.D., Northwestern University. Associate Professor of Speech Communication.
- Robert Boughton**, 1980. B.S., M.S., Ph.D., Ohio State University. Professor and Chair of Physics.
- Richard W. Bowers**, 1969. B.S.Ed., M.S., Ph.D., Ohio State University. Professor of Health and Physical Education.
- John H. Boyer**, 1972. B.A., Michigan State University; M.A., Bradley University; Ph.D., University of Missouri. Associate Professor of Journalism; Director, School of Journalism.
- Rita R. Brace**, 1969. B.A., Bowling Green State University; Ph.D., University of Toledo. Assistant Professor of Education.
- Carole A. Bradford**, 1970. B.A., M.A., University of Tennessee; Ph.D., Vanderbilt University. Assistant Professor of Romance Languages.
- Michael P. Bradle**, 1968***. B.S., Massachusetts Institute of Technology; M.A., Boston University; Ph.D., University of Hawaii. Associate Professor of Philosophy.
- Ralph A. Brauer**, 1976. B.A., Grinnell College; M.A., University of Wyoming; Ph.D., University of Minnesota. Assistant Professor of Popular Culture.
- Jacqueline Braveboy-Wagner**, 1978. B.A., M.A., University of West Indies, Trinidad; Ph.D., University of Arizona. Assistant Professor of Political Science.
- Arthur S. Brecher**, 1969. B.S., City College of New York; Ph.D., University of California, Los Angeles. Professor of Chemistry.
- Bartley A. Brennan**, 1974. B.A., Georgetown University School of Foreign Service; M.A., Memphis State University; J.D., State University of New York at Buffalo. Associate Professor of Legal Studies.
- Morgan M. Brent**, 1957. B.S., M.S., Ph.D., Northwestern University. Professor of Biological Sciences.
- William E. Brewer**, 1979. B.S., M.S., University of Toledo. Associate Professor in School of Technology.
- Don Bright**, 1968. B.S., Manchester College; M.A., Northwestern University; Ed.D., University of Cincinnati. Professor of Business Education.
- Melvin E. Brodt**, 1960. B.S., Miami University; M.S., University of Illinois. Associate Professor of Health and Physical Education; Head Track and Cross Country Coach.
- Clifford C. Brooks**, 1969. B.A., Baldwin-Wallace College; Ph.D., Bowling Green State University. Assistant Professor of Educational Curriculum and Instruction.
- Deborah Brown**, 1978. B.S., Bowling Green State University; M.L.S., Kent State University. Assistant Professor of Humanities; Librarian, Firelands College.
- M. Neil Browne**, 1968. B.A., University of Houston; Ph.D., University of Texas. Professor of Economics.
- Ray B. Browne**, 1967. B.A., University of Alabama; M.A., Columbia University; Ph.D., University of California, Los Angeles. Professor and Chair of Popular Culture and University Professor.
- Harold A. Brubaker**, 1973. B.S., M.A., Ph.D., Ball State University. Assistant Professor of Education.
- Richard W. Buchanan**, 1979. B.S., University of Illinois; M.B.A., Washington University; Ph.D., Michigan State University. Associate Professor of Marketing.

Lloyd J. Buckwell Jr., 1967. B.S., Northwestern University; M.S., Virginia Polytechnic Institute and State University; Ph.D., University of Minnesota. Professor of Accounting and Management Information Systems.

Patricia Buckwell, 1969. B.S., Kansas State University; M.M., Bowling Green State University. Assistant Professor of Music Education.

Duncan Buell, 1977. B.S., University of Arizona; M.A., University of Michigan; Ph.D., University of Illinois. Assistant Professor of Computer Science.

Joseph C. Buford, 1948. B.Ed., M.S.Ed., Illinois State University; Ph.D., University of California, Los Angeles. Professor of Geography.

Richard Burke, 1972. B.A., Bowling Green State University; M.Ed., Ed.D., University of Toledo. Associate Professor of Education.

Dwight Burlingame, 1978. B.S., Moorhead State University; M.S., University of Illinois; Ph.D., Florida State University. Associate Professor and Dean of University Libraries.

Frances Burnett, 1964. B.M., M.M., Cincinnati Conservatory of Music. Professor of Music Performance Studies.

Antonio Luis Buron, 1969. B.A., Nuestra del Pilar Pozuelo de Alarcon; M.A., University of Arizona; Ph.D., University of Minnesota. Associate Professor of Romance Languages.

John R. Burt, 1972. B.A., M.A., Ph.D., University of Minnesota. Associate Professor of Romance Languages.

Diane Burton, 1978. B.A., Nebraska State College; M.Ed., University of Wyoming; Ed.D., University of New Mexico. Assistant Professor of Physical Education and Recreation.

Edward R. Butler, 1971. B.S., McPherson College; Ed.M., Ph.D., State University of New York, Buffalo. Associate Professor of Education.

Robert H. Byler Jr., 1973. B.A., Illinois Wesleyan University; M.A., University of Missouri. Assistant Professor of Journalism.

Alice Calderonello, 1973. B.A., M.A., Ph.D., University of Illinois. Associate Professor of English.

Donald M. Callen, 1979. B.A., Roberts Wesleyan College; M.S., State University of New York; Ph.D., Temple University. Assistant Professor of Philosophy.

Thomas Callerman, 1977. B.B.A., West Texas State University; M.B.A., Arizona State University. Assistant Professor of Management.

Donald Campbell, 1977. B.A., New York University; M.S., Ph.D., Purdue University. Assistant Professor of Management.

Kathleen Campbell, 1977. B.A., Fordham University; M.A., Hunter College; Ph.D., Purdue University. Assistant Professor of Home Economics.

Malcolm B. Campbell, 1966. B.A., M.A., Ph.D., University of Michigan. Professor of Education.

Bernetta Canton, 1978. B.S., West Virginia University; M.S., Iowa State University. Instructor in Home Economics.

Roman G. Carek, 1968. B.A., St. Francis Seminary; M.A., Ph.D., University of Iowa. Associate Professor; Director, Counseling and Career Development Center.

Alvar W. Carlson, 1970. B.S., University of Wisconsin; M.A., Ph.D., University of Minnesota. Professor of Geography.

Richard C. Carpenter, 1953. B.A., Tufts University; M.A., Ph.D., Boston University. Professor of English.

M. Don Carriker, 1977. B.M.E., M.A., Wichita State University; Ph.D., Kansas State University. Associate Professor of Education.

David L. Cayton, 1964***. B.F.A., M.F.A., Bowling Green State University. Associate Professor of Art.

Stephen A. Cernkovich, 1975. B.A., M.A., Ph.D., Southern Illinois University. Assistant Professor of Sociology.

Oliver Chamberlain, 1968. B.M., M.M., New England Conservatory; M.F.A., Brandeis University. Assistant Professor of Music Composition and History.

Leslie J. Chamberlin, 1967. B.S., M.A., Washington University; Ed.D., University of Missouri. Professor of Educational Administration and Supervision.

Benita Chambers, 1972. B.A., Brooklyn College; M.Ed., Kent State University; Ph.D., Ohio State University. Assistant Professor of Education.

Norman S. Chambers, 1969. B.A., Furman University; M.A., Kent State University; Ph.D., University of South Carolina. Associate Professor of Education.

Ernest A. Champion, 1974. B.A., University of Ceylon; M.A., Ph.D., Bowling Green State University. Associate Professor of Ethnic Studies.

Stephen Sin-Tak Chang, 1971. B.A., Bucknell University; M.A., Ph.D., University of California. Associate Professor of Geography.

Donald Chase, 1971. B.S., Ohio State University; M.A.T., Ph.D., Michigan State University. Associate Professor of Education; Director, Resources and Field Experiences, College of Education.

D.S. Chauhan, 1979. B.A., B.R., College (Agra); M.A., D.P.A., Ph.D., University of Lucknow; M.P.A., Kent State University. Associate Professor of Political Science.

Edward Chen, 1966. B.A., National Taiwan University; M.A., Ph.D., University of Pennsylvania. Associate Professor of History.

Michelle Chenault, 1978. B.A., Valparaiso University; M.A., Central Michigan University. Instructor in Medical Technology.

Myron Chenault, 1976. B.A., Manchester College; J.D., Valparaiso University. Assistant Professor, College of Health and Community Services, and Assistant Vice President - Institutional Contracts.

Lois Cheney, 1964. B.A., Muskingum College; M.A., Kent State University; Ph.D., Michigan State University. Professor of Speech Communication.

Leigh Chlarelott, 1978. B.A., M.S.Ed., Northern Illinois University; Ph.D., Ohio State University. Assistant Professor of Education.

Grace Chickadonz, 1979. B.S.N., University of Kansas; M.S., Ph.D., University of Maryland. Adjunct Professor of Nursing; Director, School of Nursing.

David Chilson, 1978. B.A., Wittenberg University; M.A., Ph.D., Bowling Green State University. Assistant Professor of Computer Science.

Charles Chittle, 1965. B.A., Hiram College; M.S., Ph.D., Purdue University. Professor of Economics.

John W. Chun, 1975. B.A., M.S., Ph.D., Ohio State University. Assistant Professor of Humanities, Firelands College.

Richard Cioffari, 1967. B.M., M.M., University of Michigan. Associate Professor of Music Performance Studies.

Robert K. Clark, 1963. B.A., University of Wyoming; M.A., University of Tennessee; Ph.D., Ohio State University. Associate Professor of Speech Communication.

George B. Clemans, 1967. B.S., Virginia Polytechnic Institute and State University; M.A., Ph.D., Duke University. Professor of Chemistry.

C. Elizabeth Cobb, 1961. B.M., M.M., Yale University; Ph.D., University of Iowa. Associate Professor of Music Performance Studies.

Thomas Berry Cobb, 1969. B.A., Southern Missionary College; M.S., University of South Carolina; Ph.D., North Carolina State University. Associate Professor of Physics and Assistant Vice Provost for Planning and Special Projects, Graduate College.

Cornelius Cochrane Jr., 1964. B.A., Oberlin College; M.A., University of Maryland. Associate Professor of Health and Physical Education.

- Ronald L. Coleman**, 1964. B.F.A., M.A., Bowling Green State University. Associate Professor of Art.
- Gerard P. Colgan**, 1973. B.E.E., Polytechnic Institute of Brooklyn; M.A., Professional Engineer License, Adelphi University. Associate Professor of Applied Sciences, Firelands College.
- Evron S. Collins**, 1963. B.A., Bowling Green State University; M.S., University of Illinois. Associate Professor; Librarian.
- Robert J. Conibear**, 1964. B.S., M.Ed., Wayne State University. Assistant Professor of Health and Physical Education.
- Robert L. Conner**, 1971. Ph.D., North American College, Vatican City; M.A., Ph.D., University of Portland. Professor of Psychology.
- Ramona T. Cormier**, 1965. B.A., University of Southwestern Louisiana; M.A., University of Southern California; Ph.D., Tulane University. Professor of Philosophy and Associate Provost.
- Vincent J. Corrigan**, 1973. B.F.A., Carnegie-Mellon University; M.M., Indiana University. Instructor in Music Composition and History.
- Ronald R. Cote**, 1970. A.B., Maryknoll College; M.Ed., Salem State College; Ed.D., Boston University. Associate Professor of Education.
- Howard Cotrell**, 1967. B.S., Defiance College; M.S., Purdue University. Associate Professor and Assistant Director, Instructional Media Center.
- June M. Coughlin**, 1974. B.S.Ed., Capital University; M.S.L.S., Case Western Reserve University. Assistant Professor of Humanities; Librarian, Firelands College.
- Sally H. Cox**, 1977. B.S., Southern Illinois University. Instructor in Physical Education and Recreation.
- Arthur Jared Crandall**, 1967. B.S., St. Lawrence University; M.S., Ph.D., Michigan State University. Associate Professor of Physics.
- Richard E. Crang**, 1969. B.S., Eastern Illinois University; M.A., University of South Dakota; Ph.D., University of Iowa. Professor of Biological Sciences.
- Charles J. Cranny**, 1966. B.S., M.S., Ph.D., Iowa State University. Associate Professor of Psychology.
- Colleen Crawford**, 1976. B.A., M.A., Ohio University. Instructor in Romance Languages.
- Paul V. Crawford**, 1969. B.A., M.A., University of Oklahoma; Ph.D., University of Kansas. Professor of Geography.
- Kenneth Craycraft**, 1977. B.A., Sam Houston State University; M.Ed., Stephen F. Austin State University; Ed.D., Indiana University. Assistant Professor of Education.
- Charles L. Crow**, 1968. A.B., Stanford University; M.A., Ph.D., University of California. Associate Professor of English.
- Patricia A. Cunningham**, 1979. A.A., Stephens College; B.S., M.S., University of Illinois. Instructor in Home Economics.
- Geoffrey A. Dafforn**, 1974. B.A., Harvard University; Ph.D., University of California, Berkeley. Associate Professor of Chemistry.
- J. Christopher Dalton**, 1977. B.S., California Institute of Technology; Ph.D., Columbia University. Associate Professor of Chemistry.
- Lawrence J. Daly**, 1965. B.A., M.A., Xavier University; Ph.D., Loyola University. Associate Professor of History.
- Edgar Daniels**, 1953. B.A., Otterbein College; M.A., Ph.D., Stanford University. Professor of English.
- Glenn H. Daniels**, 1965. B.S., North Dakota State University; M.A., University of Minnesota; Ph.D., University of Iowa. Professor of Library and Educational Media; Director, Instructional Media Center.
- Jeanette C. Danielson**, 1967. B.S., M.A., Ph.D., Bowling Green State University. Associate Professor of English and Humanities and Chair of Humanities, Firelands College.
- Emil Dansker**, 1970. B.S., M.S., Northwestern University; Ph.D., Bowling Green State University. Assistant Professor of Journalism.
- Edmund J. Danziger Jr.**, 1966. B.A., College of Wooster; M.A., Ph.D., University of Illinois. Professor of History.
- Thomas G. Davenport**, 1969. Certificate, Franklin School of Professional Art; B.F.A., Pratt Institute. Associate Professor of Art.
- Douglas D. Daye**, 1969. B.A., Bowling Green State University; M.A., University of Michigan; Ph.D., University of Wisconsin. Professor of Philosophy.
- John J. Deal**, 1975. B.M., M.M., Bowling Green State University. Instructor in Music Education.
- Kelth R. Dearborn**, 1971. A.B., Hillsdale College; M.M., Westminster Choir College. Associate Professor of Music Education.
- Ivan E. DenBesten**, 1961. B.A., Calvin College; Ph.D., Northwestern University. Professor of Chemistry.
- Thomas P. Dence**, 1975. B.S.Ed., Bowling Green State University; M.A., University of Colorado; Ph.D., Colorado State University. Assistant Professor of Natural and Social Sciences, Firelands College.
- R. Serge Denisoff**, 1970. A.A., San Francisco City College; B.A., M.A., California State University, San Francisco; Ph.D., Simon Fraser University. Professor of Sociology.
- George Denninger**, 1979. B.S., M.E., Rutgers University; M.S.M.E., Stanford University. Assistant Professor of Art.
- Millicent DeOliveira**, 1970. B.S., M.S., Case Western Reserve University. Registered Dietitian, Assistant Professor of Home Economics; Director, Dietetics Program.
- Wallace E. DePue**, 1966. B.M., B.M.E., Capital University; M.A., Ohio State University; Ph.D., Michigan State University. Professor of Music Composition and History.
- Helen Gertsen Dermer**, 1960***. B.S., M.Ed., Bowling Green State University. Assistant Professor of Education.
- Donald V. DeRosa**, 1968. B.A., American International College; M.A., Ph.D., Kent State University. Professor and Chair of Psychology.
- Sara M. Derrick**, 1975. B.A., Howard University; M.Ed., Bowling Green State University; Ph.D., Ohio State University. Assistant Professor of Home Economics with dual appointment in College of Health and Community Services; Director, Child and Family Services Program.
- Robert Desmond**, 1979. B.S., University of Notre Dame; M.D., Loyola University. Associate Professor and Physician, Health Center.
- Edleann Blesbrock Dldham**, 1977. B.S., Utah State University; M.Ed., University of Georgia. Associate Professor of Education and Director, Continuing Education.
- Kelth Doellinger**, 1970. B.S., Iowa State University; M.A., Ph.D., University of Iowa. Associate Professor and Chair of Library and Educational Media.
- Michael E. Doherty**, 1965. B.S., Manhattan College; M.A., Ph.D., University of Connecticut. Professor of Psychology.
- Janet M. Dommer**, 1979. B.A., Aquinas College; Specialist in Arts, M.S.L., Western Michigan University. Assistant Professor, University Library.
- John L. Donaldson**, 1979. B.S., Case Western Reserve University; M.S., Ph.D., Ohio State University. Assistant Professor of Computer Science.
- Harvey E. Donley**, 1959. B.S.Ed., Central Missouri State University; M.A., Ph.D., University of Missouri; Certified Public Accountant, Indiana. Professor of Accounting and Management Information Systems.
- Richard W. Douglas Jr.**, 1976. B.A., University of Kansas; M.A., Ph.D., University of Iowa. Assistant Professor of Economics.

Robert E. Dudley, 1955. B.S.Ed., Ohio State University; M.S.Ed., Bowling Green State University. Associate Professor of Health and Physical Education; Administrative Assistant Intercollegiate Athletics and Director, Golf Course.

Jatinder S. Duggal, 1978. B.S., Allahabad University, India; M.S., McGill University; Ed.D., West Virginia University. Assistant Professor of Technology.

George C. Duncan, 1970. B.S., M.S., North Carolina State University; Ph.D., Brandeis University. Professor of Physics.

Steven E. Dunn, 1978. B.A., M.S., Utah State University; Ed.D., Ph.D., Brigham Young University. Assistant Professor of Health and Physical Education.

Carol L. Durentini, 1967. B.S.Ed., Central Michigan University; M.S., University of Massachusetts. Assistant Professor of Physical Education and Recreation.

Franklin Dybdahl, 1977. B.M.E., M.M., University of Nebraska; D.M.A., University of Michigan. Associate Professor of Music Performance Studies and Director, Opera Activities.

Richard R. Eakin, 1964. B.A., Geneva College; M.A., Ph.D., Washington State University. Associate Professor of Mathematics; Vice Provost, Institutional Planning and Student Affairs.

Robert B. Early, 1971. B.A., Belmont Abbey College; M.F.A., Bowling Green State University. Associate Professor of English.

N. William Easterly, 1957. B.A., West Virginia University; M.S., University of Iowa; Ph.D., West Virginia University. Professor of Biological Sciences.

Norman Eckel, 1979. B.B.A., M.B.A., University of Toledo. Assistant Professor of Accounting and Management Information Systems.

Frederick W. Eckman, 1961. B.A., M.A., Ph.D., Ohio State University. Professor of English.

Martha Eckman, 1963***. B.S., Texas Christian University; M.A., University of Texas. Associate Professor of English.

Bruce Edwards, 1966. B.A., M.A., Ph.D., University of Michigan. Associate Professor of Economics.

Donald J. Ehrlichman, 1968. B.S., Indiana University of Pennsylvania; M.F.A., Carnegie-Mellon University. Associate Professor of Art.

Rex Elkum, 1967. B.A., M.A., University of Idaho. Professor and Chair of Music Performance Studies.

Cherlin Ellas, 1977. B.S., M.S., Ph.D., University of Pittsburgh. Assistant Professor of Psychology with dual appointment in College of Health and Community Services.

David G. Elsass, 1960. B.S.Ed., M.S.Ed., Bowling Green State University; Ed.D., Case Western Reserve University. Professor of Education; Dean, College of Education.

Paul F. Endres, 1969. B.S., Bradley University; Ph.D., University of Rochester. Associate Professor of Chemistry.

Donald K. Enholm, 1973. B.A., Pepperdine College; M.A., Kansas State College. Ph.D., University of Kansas. Assistant Professor of Speech Communication.

Patricia Erickson, 1978. B.S., Bowling Green State University; M.A., Kent State University; Ph.D., Purdue University. Assistant Professor of Home Economics.

John G. Eriksen, 1968. B.A., M.A., Ph.D., University of Minnesota. Professor of Political Science and Dean, College of Arts and Sciences.

Nancy J. Evans, 1978. B.S., State University of New York; M.S., Southern Illinois University; Ph.D., University of Missouri. Assistant Professor and Counseling Psychologist, Counseling and Career Development Center.

Don L. Fadley, 1972. B.S., M.Ed., Ph.D., Ohio State University. Associate Professor of Speech Communication; Assistant Dean for Professional Development, Graduate College.

Anne Fagerburg, 1977. B.M., Oberlin Conservatory of Music, M.M., Eastman School of Music. Assistant Professor of Music Performance Studies.

Steven Feinberg, 1978. B.A., State University of New York; M.A., Kent State University; Ph.D., Syracuse University. Assistant Professor and Career Specialist, Counseling and Career Development Center.

Michael R. Ferrari, 1971. B.A., M.A., D.B.A., Michigan State University. Professor of Management and Sociology; Provost and Executive Vice President.

William H. Fichthorn, 1965. B.A., Missouri Valley College; M.B.A., Northwestern University; D.C.S., Harvard University; Chartered Financial Analyst. Professor of Finance and Insurance.

Carmen Fioravanti, 1977. B.S., St. Joseph's College; M.S., Villanova University; Ph.D., University of California, Los Angeles. Assistant Professor of Biological Sciences.

Edward D. Fiscus, 1976. B.A., Mount Union College; M.Ed., University of Pittsburgh; Ph.D., Ohio State University. Assistant Professor of Education.

Harold A. Fisher, 1972. B.A., Dubuque University; B.Div., M.A., San Francisco Theological Seminary; M.A., Ph.D., Indiana University. Associate Professor of Journalism.

Janis Fisher, 1979. B.S., Ohio State University. Instructor and Director of Medical Records Administration.

T. Richard Fisher, 1968. B.S., Eastern Illinois University; Ph.D., Indiana University. Professor of Biological Sciences.

David J. Flor, 1978. B.S., M.A., Bowling Green State University. Instructor in Economics.

Mercedes Flys, 1965. Teacher's Certificate, Teachers College, Madrid, Spain; Licenciada, Central University of Madrid; M.A., Loyola University; Ph.D., University of Madrid. Associate Professor of Romance Languages.

Humphrey S. Fong, 1970. A.B., Carroll College; M.S., Ph.D., Ohio State University. Professor of Mathematics and Statistics.

Bill E. Forisha, 1973. B.A., University of Texas; M.A., California State University, San Francisco; Ph.D., University of Maryland. Assistant Professor of Home Economics.

James H. Forse, 1966. A.B., State University of New York; A.M., Ph.D., University of Illinois. Associate Professor of History.

Jane L. Forsyth, 1965. B.A., Smith College; M.A., University of Cincinnati; Ph.D., Ohio State University. Professor of Geology.

Willard Fox, 1959. B.S. Ed., Southeast Missouri State University; M.A., University of Wyoming; Ed.D., Wayne State University. Professor of Education.

Ralph W. Frank, 1956. B.S.Ed., M.A., Kent State University; Ph.D., Northwestern University. Professor of Geography.

Stefania Frank, 1966. M.A., A. Mickiewicz University. Assistant Professor of German and Russian and Romance Languages, Language Laboratory.

Robert Freeman, 1977. B.S., M.A., Middle Tennessee State University; Ed.D., University of Tennessee. Assistant Professor of Education.

Glen R. Frey, 1968. B.S., M.S., Ph.D., University of Wisconsin. Associate Professor of Geography.

Donna G. Fricke, 1971. B.A., Gettysburg College; M.A., Ph.D., Pennsylvania State University. Associate Professor of English.

Douglas Fricke, 1971***. B.A., Colgate University; M.A., Ph.D., Pennsylvania State University. Associate Professor of English.

Lawrence J. Friedman, 1971. B.A., M.A., Ph.D., University of California. Professor of History and American Studies.

Gilbert A. Frisbie Jr., 1975. B.S., M.B.A., Indiana University; Ph.D., University of Iowa. Assistant Professor of Marketing.

- Lewis P. Fulcher**, 1973. B.S., Virginia Polytechnic Institute and State University; Ph.D., University of Virginia. Associate Professor of Physics.
- David L. Fulton**, 1970. B.S., University of Chicago; M.S., Ph.D., University of Connecticut. Professor and Chair of Computer Science.
- E. Lila Fundaburk**, 1966. B.A., George Washington University; M.A., Northwestern University; Ph.D., Ohio State University. Professor of Economics.
- Darrel W. Fyffe**, 1970. B.S., Ohio State University; M.S.T., Antioch College; Ph.D., Michigan State University. Associate Professor of Education.
- Alan J. Gallaher**, 1978. B.S., University of Wisconsin; M.A., University of Minnesota; Ph.D., Northwestern University. Assistant Professor of Speech Communication.
- Clifford J. Gallant**, 1970***. B.S., Northern Illinois University; Diplome de Professeur, University of Toulouse; M.A., Middlebury College; Ph.D. University of Toulouse. Professor of Romance Languages.
- Anthony Galvan III**, 1978. B.A., Colorado State University; M.A., University of Colorado. Instructor in Technology.
- Richard A. Gargiulo**, 1974. B.A., Hiram Scott College; M.S., Ph.D., University of Wisconsin. Associate Professor of Special Education.
- Susan J. Gavron**, 1976. B.S., State University of New York, Brockport; M.S., P.E.D., Indiana University. Assistant Professor of Physical Education and Recreation.
- Gloria Gaylord**, 1978. B.S., Edinboro State College; M.B.A., St. Cloud State University. Instructor in Accounting and Management Information Systems.
- David V. Gedeon**, 1964. B.S., M.B.S., M.Ed., Bowling Green State University. D.Ed., University of Missouri. Professor of Industrial Education and Technology.
- Christopher Geist**, 1977. B.A., M.A., Bowling Green State University; Ph.D., University of Maryland. Assistant Professor of Popular Culture.
- Karen Gelzer**, 1977. B.A., Ohio Wesleyan University; M.S., Ohio State University. Instructor in Home Economics.
- Margy J. Gerber**, 1974. B.A., University of Southern California; M.A., Ph.D., Stanford University. Associate Professor of German and Russian.
- Micheline Ghibaud**, 1965. B.S., M.A., University of Toledo. Associate Professor of Romance Languages.
- Robert C. Gill**, 1969. B.A., Western Michigan University; M.Ed., Bowling Green State University. Assistant Professor of Health and Physical Education; Head Tennis Coach.
- Peggy C. Giordano**, 1974. B.A., University of Missouri; M.A., Ph.D., University of Minnesota. Associate Professor of Sociology.
- Ricardo Girona**, 1967. B.A., B.S., Chandler College; M.Ed., Ed.D., University of Florida; Ph.D., University of Havana. Associate Professor of Education.
- Stuart R. Givens**, 1956. B.A., George Washington University; M.A., Ph.D., Stanford University. Professor of History.
- Frank W. Glann**, 1970. B.A., B.S., M.A., Ph.D., Bowling Green State University. Assistant Professor of Speech and Humanities, Firelands College.
- Dawn Glanz**, 1978. B.A., Pomona College; M.A., Columbia University; Ph.D., University of North Carolina. Assistant Professor of Art.
- David S. Glasmlire**, 1958. B.M., M.M., Cincinnati Conservatory of Music. Professor of Music Performance Studies.
- Andrew M. W. Glass**, 1971. B.A., M.A., University of Cambridge; Ph.D., University of Wisconsin. Associate Professor of Mathematics and Statistics.
- Mary L. Glenn**, 1964. B.S., Northern Illinois University; M.S., Iowa State University. Assistant Professor of Home Economics.
- M. Lee Goddard**, 1962. B.A., Bowling Green College of Commerce; M.B.A., Ed.D., Indiana University. Professor of Business Education.
- Veronica Gold**, 1975***. B.S., Southern Illinois University; M.Ed., Ph.D., Bowling Green State University. Assistant Professor of Special Education.
- Robert P. Goodwin**, 1961. M.A., Fordham University; Ph.D., Georgetown University. Professor of Philosophy.
- James R. Gordon**, 1966. B.S., Bowling Green State University; M.A., Ohio State University. Professor of Journalism; Adviser, *The Key*.
- James Q. Graham Jr.**, 1960. B.S., M.A., Columbia University; Ph.D., Ohio State University. Associate Professor of History.
- William E. Grant**, 1979. B.A., M.A., San Fernando Valley State College; Ph.D., Claremont Graduate School. Associate Professor and Director of American Studies.
- Louis C. Graue**, 1959. B.S., M.S., University of Chicago; Ph.D., Indiana University. Professor of Mathematics and Statistics.
- Robert C. Graves**, 1966. B.S., M.S., Ph.D., Northwestern University. Professor of Biological Sciences.
- Joseph L. Gray III**, 1970. B.A., Washington and Lee University; M.A., Ph.D., University of Chicago. Associate Professor and Chair of German and Russian.
- Kenneth V. Green**, 1967. B.S., M.Ed., Bowling Green State University; Ed.S., University of Toledo. Assistant Professor of Business Education.
- Bonita R. Greenberg**, 1970. B.A., M.S., Adelphi University; Ph.D., Purdue University. Assistant Professor of Speech Communication.
- Herbert J. Greenberg**, 1970. B.S., McGill University; M.A., Adelphi University; Ph.D., Purdue University. Professor of Speech Communication.
- John T. Greene**, 1955. B.A., Wayne State University; M.A., University of Oregon; Ph.D., University of Illinois. Associate Professor of Psychology.
- Stephen Gregory**, 1977. B.S., University of Illinois; Ph.D., University of Arizona. Assistant Professor of Physics.
- John T. Gresser**, 1969. B.S., M.S., Ph.D., University of Wisconsin. Associate Professor of Mathematics and Statistics.
- Marilyn Griewank**, 1978. B.S., Bowling Green State University; M.F.A., Indiana University. Instructor in Art.
- Eleanor K. Griffen**, 1976. B.A., Agnes Scott College; M.A., Ph.D., University of Washington. Assistant Professor of Education.
- Patricia A. Mahoney Griffith**, 1973. B.A., Rosary Hill College; M.A., State University of New York/Bufalo. Instructor in Special Education.
- Cynthia S. Groat**, 1962. B.A., Wellesley College; M.A., Brown University. Assistant Professor of Biological Sciences.
- H. Theodore Groat**, 1961. B.A., M.A., Bowling Green State University; Ph.D., Brown University. Professor of Sociology.
- Mark Gromko**, 1978. B.A., Swarthmore College; M.A., Ph.D., Indiana University. Assistant Professor of Biological Sciences.
- Roger D. Gross**, 1971. B.A., University of Oregon; M.A., University of Minnesota; Ph.D., University of Oregon. Professor of Speech Communication.
- David Groves**, 1979. B.S., Concord College; M.S., Marshall University; D.Ed., Pennsylvania State University. Associate Professor in the School of Health, Physical Education, and Recreation.
- Robert M. Gulon**, 1952. B.S., University of Iowa; M.S., Ph.D., Purdue University. Professor of Psychology.
- Arjun K. Gupta**, 1976. B.S., Banaras Hindu University; B.S., M.S., Poona University; Ph.D., Purdue University. Associate Professor of Mathematics and Statistics.

Mearl R. Guthrie Jr., 1954. B.S., M.A., Ball State University; Ph.D., University of Minnesota. Professor and Chair of Business Education.

Helmut J. Gutmann, 1975. M.A., Ph.D., Columbia University. Assistant Professor of German and Russian.

Howard N. Gutnick, 1979. B.A., University of Chicago; M.S., Ph.D., University of Wisconsin. Assistant Professor of Speech Communication.

Harry Gyman, 1967. B.A., Temple University; Ph.D., Washington University. Assistant Professor of Sociology.

Paul F. Haas, 1967. B.S., John Carroll University; M.A., Ph.D., Boston College. Professor of Economics.

Kathleen M. Hagan, 1973. B.F.A., M.F.A. University of Kansas. Assistant Professor of Art.

Sue A. Hager, 1967. B.S., University of Dayton; M.Ed., Miami University. Assistant Professor of Physical Education and Recreation.

Lucille G. Hagman, 1964. B.E., Northern Illinois University; M.A., Northwestern University; Ed.D., University of Colorado. Professor of Education.

Mary J. Hahler, 1970. B.S.Ed., M.A., Bowling Green State University. Assistant Professor of Romance Languages and Humanities, Firelands College.

Chan K. Hahn, 1970. B.B.A., Yonsei University; M.B.A., Ph.D., Ohio State University. Professor and Chair of Management.

Carl D. Hall, 1957. B.S., Southwest Missouri State University; M.F.A., University of Iowa. Professor of Art.

Carl W. Hallberg, 1951. B.S., M.S., Ph.D., University of Michigan. Professor of Biological Sciences.

Georgia Halstead, 1959. B.S.H.E., Purdue University; M.S.Ed., Michigan State University; Ph.D., Pennsylvania State University. Professor of Home Economics.

Charles J. Hamed, 1968. B.A., University of Illinois; M.B.A., University of Chicago; A.D.C., University of Illinois; Ed.D., Northern Illinois University. Professor of Business Education.

Ernest S. Hamilton, 1956. B.S., University of Massachusetts; M.S., Ph.D., Rutgers University. Associate Professor of Biological Sciences.

Ivan Hammond, 1967. B.M., M.M., Indiana University. Associate Professor of Music Performance Studies.

Kay Hamod, 1977. B.A., Northwestern University; M.A., Valparaiso University; Ph.D., University of Iowa. Assistant Professor of Natural and Social Sciences, Firelands College.

William D. Hann, 1967. B.S., Wilson Teachers College; M.S., Ph.D., George Washington University. Associate Professor of Biological Sciences; Director, Medical Technology Program.

Duwayne H. Hansen, 1969. B.S., University of Wisconsin; M.M., Northwestern University; D.M.E., Indiana University. Associate Professor of Music Education.

Robert C. Hansen, 1977. B.A., University of Minnesota; M.S., Florida State University; Ph.D., University of Minnesota. Assistant Professor of Speech Communication.

Robert W. Hansen, 1971. B.A., Rockford College; M.A., Ph.D., Princeton University. Assistant Professor of Political Science.

James L. Harner, 1971. B.S., Indiana State University; M.A., Ph.D., University of Illinois. Associate Professor of English.

William E. Harrington, 1959. B.S., Baldwin-Wallace College; M.A., Ohio State University; Ed.D., Case Western Reserve University. Professor of Education.

Gall Harris, 1979. B.S., Bowling Green State University. Instructor in Computer Science.

William N. Harris, 1963. B.A., M.Ed., Wayne State University; Ph.D., University of Michigan. Professor of Education; Director of Student Teaching.

Ronald V. Hartley, 1965. B.S.C., Ohio University; M.A.S. Ph.D., University of Illinois. Professor of Accounting and Management Information Systems.

Kirill F. Hartman, 1964. B.A., Carleton College; B.A., St. John's University; M.A., Fordham University; Ph.D., University of Pennsylvania. Assistant Professor of German and Russian.

Jerry Hartwell, 1977. B.Ed., University of Toledo; M.A., Eastern Michigan University. Media Specialist and Instructor in Instructional Media Center.

Harold L. Hasselschwert, 1961. B.S.Ed., M.A., Bowling Green State University. Professor of Art.

Charles Earl Hayden, 1965. B.S., M.A., Ph.D., Ohio State University. Professor of Education.

John L. Hayden, 1970. B.A., University of Missouri; M.S., Ph.D., Michigan State University. Associate Professor of Mathematics and Statistics.

David T. Hayes, 1976. B.S., Ohio State University; M.A.T., Duke University; Ph.D., Ohio State University. Associate Professor of Education with dual appointment in Mathematics and Statistics.

Richard J. Hebeln, 1969. B.A., M.A., Marquette University; Ph.D., St. Louis University. Associate Professor and Chair of Romance Languages.

Gary T. Heberlein, 1976. B.A., Ohio Wesleyan University; M.S., Ph.D., Northwestern University. Professor of Biological Sciences and Dean, Graduate College.

Robert S. Heldler, 1968. A.B., Ohio University; A.M.L.S., University of Michigan. Assistant Professor; Librarian.

Daniel Helsler, 1967. A.B., B.S., Wilmington College; M.A., Miami University; Ph.D., Ohio State University. Associate Professor of Education.

Harold Henderson, 1970. B.A., M.S., Southern Illinois University; Ph.D., University of Iowa. Associate Professor of Education.

Martin P. Henning III, 1973. B.S.C.E., Purdue University; M.S.E., University of California. Associate Professor of Applied Sciences and Health and Community Services and Chair of Applied Sciences, Firelands College.

George Herman, 1958. B.A., Brooklyn College; M.S., Ph.D., University of Michigan. Professor of Speech Communication.

Thomas A. Hern, 1969. A.B., University of Cincinnati; M.S., Ph.D., Ohio State University. Associate Professor of Mathematics and Statistics.

Mary Jo Herwick, 1976. B.S., Bowling Green State University; M.A., University of Iowa. Instructor in Business Education.

Gary R. Hess, 1964. B.A., University of Pittsburgh; M.A., Ph.D., University of Virginia. Professor and Chair of History.

Kenneth H. Hibbeln, 1978. B.A., University of Idaho; M.A., Ph.D., University of California, Santa Barbara. Assistant Professor of Political Science.

Richard K. Highfield, 1979. B.E., University of Toledo; M.B.A., Ball State University. Assistant Professor of Applied Sciences, Firelands College.

Kenneth R. Hille, 1968. B.S., Wagner Memorial College; M.A., Bowling Green State University; Ph.D., Ohio State University. Associate Professor of Biology and Chair of Natural and Social Sciences, Firelands College.

Robert L. Hillerich, 1975. A.B., University of Louisville; M.S., Indiana University; Ed.D., Colorado State University. Professor of Education.

John Hiltner Jr., 1958. B.A., M.A., University of Iowa; Ph.D., Northwestern University. Professor of Geography; Director, Gerontology Program.

Thomas H. Hilty, 1968. B.A., Western State University; M.F.A., Bowling Green State University. Professor of Art.

- Delmer M. Hilyard**, 1967. B.A., University of Denver; M.S., Kansas State College; Ph.D., Michigan State University. Professor of Speech Communication.
- John H. Hoag**, 1972. B.A., Purdue University; M.S., University of Minnesota; Ph.D., University of Kansas. Associate Professor of Economics.
- Richard D. Hoare**, 1957. A.B., Augustana College; M.A., Ph.D., University of Missouri. Professor and Chair of Geology.
- Marie R. Hodge**, 1965. B.S.C., M.B.A., Northwestern University. Instructor in Management; Assistant Dean, College of Business Administration.
- Harry W. Hoemann**, 1969. B.A., B.D., Concordia Seminary; M.S., Gallaudet College; M.A., Ph.D., Catholic University. Associate Professor of Psychology.
- James E. Hof**, 1951***. B.A., M.A., Bowling Green State University. Assistant Professor; Vice President for Development and Alumni Affairs.
- Ruth H. Hoffman**, 1969. B.S.Ed., Temple University; M.L., University of Washington. Assistant Professor, University Library.
- Charles W. Holland**, 1971. B.S., M.S., Ph.D., Tulane University. Professor of Mathematics and Statistics.
- Herbert A. Hollister**, 1965. B.A., Allegheny College; M.A., Ph.D., University of Michigan. Professor of Mathematics and Statistics.
- Jerry Holmberg**, 1977. B.S., Saginaw Valley College; M.T., St. Luke's Hospital; M.S. Michigan State University. Assistant Professor of Medical Technology.
- John H. Holmes**, 1965. B.S.C., University of Notre Dame; M.B.A., University of Cincinnati; Ph.D., Michigan State University. Professor of Marketing.
- Robert A. Holmes**, 1977. B.A., J.D., College of William and Mary. Assistant Professor of Legal Studies.
- Carl S. Holton**, 1978. B.S., M.Ed., Bowling Green State University. Instructor in Medical Technology.
- Stephen B. Hood**, 1969. B.A., Denison University; M.A., Ph.D., University of Wisconsin. Professor of Speech Communication.
- George R. Horton**, 1966. B.S.Ed., Ohio University; M.A., Ph.D., Ohio State University. Professor of Industrial Education and Technology; Associate Dean, College of Education.
- Raymond S. Horvath**, 1970. B.A., M.S., Ph.D., Rutgers University. Associate Professor of Biological Sciences; Director, Applied Microbiology Program.
- William R. Hoskins**, 1965. B.A., University of Washington; M.B.A., D.B.A., Indiana University. Professor of Marketing.
- Kathleen Howard-Merriam**, 1967. B.A., Western College for Women; M.A., Ph.D., Indiana University. Assistant Professor of Political Science.
- John A. Howe**, 1965. B.S., Bowling Green State University; M.S., Ph.D., University of Nebraska. Associate Professor of Geology.
- Cynthia Hubbard**, 1977. B.S., M.S., Bowling Green State University. Instructor in Computer Science.
- John L. Huffman**, 1978. B.A., Black Hills College; Ph.D., University of Iowa. Associate Professor of Journalism.
- Ronald J. Hunady**, 1969. B.S., M.B.A., Bowling Green State University; Ph.D., Michigan State University. Associate Professor of Management.
- Sylvia W. Huntley**, 1969. B.S., Bluefield State College; M.Ed., University of Toledo. Assistant Professor of Educational Curriculum and Instruction.
- Robert Hurlstone**, 1978. B.S., Illinois State University. Instructor in Art.
- Peggy Hurst**, 1955. B.A., Wilson College; M.A., Ph.D., University of Wisconsin. Professor of Chemistry.
- Peter M. Hutchinson**, 1971. B.A., St. Vincent College; M.A., Ph.D., University of Pittsburgh. Associate Professor of Economics.
- Melvin Hyman**, 1952. B.A., Brooklyn College; M.A., Ph.D., Ohio State University. Professor of Speech Communication; Director, Speech and Hearing Clinic and Program.
- David J. Hyslop**, 1973. B.A., M.B.A., Ph.D., Michigan State University. Associate Professor of Business Education.
- Kenley P. Inglefield**, 1974. B.M., Eastman School of Music; M.A., American University; D.M.A., Cincinnati Conservatory of Music. Associate Professor of Music Composition and History.
- Ruth K. Inglefield**, 1973. B.A., Goucher College; M.M., Ph.D., University of Cincinnati. Associate Professor of Music Composition and History.
- Robert W. Innis**, 1960. B.S., Central Michigan University; M.S., Stout Institute; Ed.D., Michigan State University. Associate Professor of Industrial Education and Technology.
- Margaret Ishler**, 1972. B.A., M.A., Pennsylvania State University; Ed.D. University of Toledo. Associate Professor of Education.
- Faith L. Jackson**, 1971. B.S., M.A., Bowling Green State University. Associate Professor of Speech Communication.
- William B. Jackson**, 1957. B.A., M.A., University of Wisconsin; Sc.D., Johns Hopkins University. Professor of Biological Sciences.
- Ronald J. Jacomini**, 1965. B.Des., University of Florida; M.F.A., Bowling Green State University. Professor of Art.
- Laurence J. Jankowski**, 1975. B.A., Maryknoll College; B.A., University of Toledo; M.A., Bowling Green State University; Ph.D., University of Toledo. Assistant Professor of Journalism.
- Thomas R. Jensen**, 1971. B.S., Brigham Young University; M.Ed., Ed.D., University of Illinois. Associate Professor of Technology.
- Timothy D. Jewell**, 1977. B.A., Manhattan College; M.L.S., State University of New York, Albany; M.A., Pennsylvania State University. Assistant Professor; Librarian.
- Alex B. Johnson**, 1978. B.S., Winston-Salem State University; M.S., Lehman College; Ph.D., Pennsylvania State University. Assistant Professor of Special Education.
- Carlos S. Johnson Jr.**, 1970. B.S., California Institute of Technology; M.A., Ph.D., University of Massachusetts. Associate Professor of Mathematics and Statistics.
- Harold J. Johnson**, 1966. B.A., University of Michigan; Ph.D., University of Illinois. Professor of Psychology.
- Sally A. Johnson**, 1978. B.S., M.Ed., Bowling Green State University. Instructor in Business Education.
- Wayne A. Johnson**, 1965. B.A., Concordia College; M.S., Ph.D., University of Illinois; Certified Public Accountant, Illinois. Associate Professor of Accounting and Management Information Systems.
- Gay Jones**, 1969. B.S.Ed., M.A., Bowling Green State University. Assistant Professor, Instructional Media Center.
- Gerald A. Jones**, 1976. B.S., Wheaton College; M.S., Cornell University. Assistant Professor of Computer Science.
- L. JaFran Jones**, 1978. B.M.E., M.A., Ph.D., University of Washington. Assistant Professor and Chair of Music Composition and History.
- Ronald D. Jones**, 1962***. B.S., B.Th., Marion College; M.A., Ph.D., University of Wisconsin. Associate Professor and Chair of Educational Administration and Supervision.
- Wendell Jones**, 1967. B.S., Ohio State University; M.A., University of Northern Colorado. Associate Professor of Music Performance Studies and Assistant to the Dean for Development and Community Services, College of Musical Arts.
- William D. Jones**, 1974. B.S., M.A., Bowling Green State University. Assistant Professor of Health and Physical Education; Head Athletic Trainer.

Robert R. Joynt, 1967. B.S., Central Michigan University; M.Ed., Wayne State University; Ed.D., University of Northern Colorado. Associate Professor of Education.

Charles F. Kahle, 1965. B.S., St. Joseph's College; M.S., Miami University; Ph.D., University of Kansas. Professor of Geology.

Delbert D. Karnes Jr., 1970. B.S., Bluffton College; M.Ed., Ed.S., Ph.D., Bowling Green State University. Associate Professor of Business Education.

Louis I. Katzner, 1969. A.B., Brown University; M.A., Ph.D., University of Michigan. Professor of Philosophy.

Donald F. Kausch, 1968. B.S., University of Wisconsin; M.A., Ph.D., University of Nebraska. Professor of Psychology; Director, Psychological Services Center.

Fujiya Kawashima, 1970. B.A., International Christian University, Tokyo; A.M., M.A., Yonsei University; M.A., Ph.D., Harvard University. Associate Professor of History.

Robert J. Keefe, 1955. B.A., Brooklyn College; M.A., Ed.D., Columbia University. Professor of Health and Physical Education.

Stuart M. Keeley, 1967. B.A., Coe College; M.A., Ph.D., University of Illinois. Professor of Psychology.

Mark Kelly, 1966. B.A., M.A., University of Iowa. Professor of Music Education.

Allen N. Kepke, 1963. B.A., Otterbein College; M.A., Ohio State University; Ph.D., Michigan State University. Professor of Speech Communication; Associate Dean, College of Arts and Sciences.

Sally J. Kilmer, 1979. B.S., M.S., Pennsylvania State University; Ph.D., Stanford University. Associate Professor of Home Economics.

Kyoo H. Kim, 1978. B.A., Seoul National University; M.A., Ph.D., University of Wisconsin/Madison. Assistant Professor of Economics.

Sooja Kim, 1977. B.A., California State University, Humboldt; M.S., Ph.D., Texas Woman's University; Registered Dietitian. Assistant Professor of Home Economics.

Young-Jin Kim, 1978. B.A., Seoul National University; M.B.A., Columbia University; Ph.D., Indiana University. Assistant Professor of Finance and Insurance.

Young Nam Kim, 1969. B.M., M.M., Syracuse University. Associate Professor of Performance Studies. Artist-in-Residence in Violin.

Thomas L. Kinney, 1959. B.A., Swarthmore College; M.A., Ph.D., University of Michigan. Professor of English.

Thomas H. Kinstle, 1971. B.A., Bowling Green State University; Ph.D., University of Illinois. Professor of Chemistry.

Kenneth F. Kiple, 1970. B.A., University of South Florida; Ph.D., University of Florida. Associate Professor of History.

William A. Kirby, 1961. B.A., M.A., University of Wyoming; Ph.D., University of Texas. Professor of Mathematics and Statistics.

Judy A. Kiser, 1975. B.A., Bowling Green State University; M.S.W., University of Michigan. Assistant Professor of Social Work, College of Health and Community Services.

C. Thomas Kisselle, 1965. B.S.Ed., M.Ed., Bowling Green State University. Assistant Professor of Health and Physical Education; Assistant Athletic Director and Coordinator of Fields and Facilities.

Judith K. Kisselle, 1966. B.S., M.A., Bowling Green State University. Instructor in Physical Education and Recreation.

Joseph E. Kivlin, 1965. B.S., University of Vermont; M.S., Ph.D., Pennsylvania State University. Professor and Chair of Sociology.

Laura Douglas Kivlin, 1965. B.S., University of Vermont; M.S., Ed.D., Pennsylvania State University. Professor of Home Economics.

Malcolm Klein, 1978. B.S., Bucknell University. Instructor in Applied Statistics and Operations Research.

Thomas D. Klein, 1971. B.A., Tufts University; M.A.T., Harvard University; Ph.D., Northwestern University. Associate Professor of English.

Thomas R. Knox, 1972. B.A., Trinity College; M.A., Ph.D., Yale University. Assistant Professor of History.

Jullus T. Kosan, 1968. B.F.A., Bowling Green State University; M.A.F.A. Eastern Michigan University. Associate Professor of Art and Humanities, Firelands College.

Lawrence Kowalski, 1978. B.S., Bowling Green State University; J.D., University of Toledo. Instructor in Accounting and Management Information Systems.

David M. Krabill, 1946. B.A., College of Wooster; M.A., Ph.D., Ohio State University. Professor of Mathematics and Statistics with dual appointment in Computer Science.

Jeffrey Krabill, 1977. B.S., College of Wooster; M.S., M.B.A., Ohio State University. Instructor in Applied Science, Firelands College.

Joseph F. Krauter, 1968. B.A., M.A., University of Illinois. Associate Professor of Political Science and Natural and Social Sciences, Firelands College.

V. N. Krishnan, 1965. M.A., B.L., Madras University; Ph.D., Michigan State University. Professor of Economics.

Dvora L. Krueger, 1978. B.A., Queens College; M.A., Ohio State University. Instructor in Art.

Richard A. Kruppa, 1969. B.S., Pennsylvania State University; M.S., State University of New York, Buffalo; Ph.D., Ohio State University. Professor of Industrial Education and Technology.

Mary L. Kuhtz, 1974. B.A., Western Michigan University; A.M.L.S., University of Michigan. Assistant Professor, Librarian.

Marvin Lee Kumler, 1968. B.A., Northwestern University; M.A., Ph.D., Kent State University. Associate Professor of Psychology.

Daniel J. Kuna, 1974. B.A., M.S., Ph.D., State University of New York. Associate Professor of Special Education with dual appointment in College of Health and Community Services; Director, Rehabilitation Counseling Program.

John W. Kunstmann, 1964. B.A., University of Chicago; B.A., Valparaiso University; M.A., Ph.D., Northwestern University. Associate Professor of Geography.

Martin J. Kuula, 1978. B.S., M.A., Kent State University. Instructor of Natural and Applied Sciences, Firelands College.

Ray Laakanlehti, 1978. A.B., University of Michigan; M.S., Ph.D., Ohio University. Assistant Professor of Journalism.

Radha G. Laha, 1972. B.S., M.S., Presidency College; Ph.D., Calcutta University. Professor of Mathematics and Statistics.

Charles J. Lakofsky, 1948. Diploma, Cleveland Institute of Art; B.F.A., State University of New York, College of Ceramics, Alfred University; M.A., Ohio State University. Professor of Art.

Tim D. P. Lally, 1976. A.B., Harvard University; M.A., State University of New York, Stony Brook. Instructor in English.

Ronald Errol Lam, 1968. B.S., Muhlenberg College; M.L.S., Western Michigan University. Assistant Professor; Librarian.

Charles Lamp, 1979. B.S., Case Western Reserve University. Instructor of Applied Sciences, Firelands College.

Ann Marie Lancaster, 1976. B.A., Mt. St. Mary's College; M.S., San Diego State University; Ph.D., University of California, San Diego. Assistant Professor of Computer Science.

Ronald L. Lancaster, 1973. B.A. Bellarmine College. M.S., Ph.D., Purdue University. Associate Professor of Computer Science.

- Martha J. Lause**, 1973. B.A., Mary Manse College; M.S., University of Wisconsin. Assistant Professor, Librarian.
- John C. Lavezzi**, 1973. A.B., Catholic University of America; M.A., University of Cincinnati; Ph.D., University of Chicago. Assistant Professor of Art.
- Park E. Leathers**, 1975. B.A., Bowling Green State University; M.A., Ph.D., University of Pennsylvania. Associate Professor of Accounting and Management Information Systems.
- Briant Hamor Lee**, 1968. B.A., Adelphi University; M.A., Indiana University; Ph.D., Michigan State University. Associate Professor of Speech Communication.
- Verlin W. Lee**, 1964. B.S., M.S., M.A., Marshall University; Ph.D., Ohio State University. Professor and Chair of Educational Curriculum and Instruction.
- J. Frederick Leetch**, 1961. B.S., Grove City College; M.A., Ph.D., Ohio State University. Professor of Mathematics and Statistics.
- Donald B. Leventhal**, 1961. B.S., University of Tennessee, Chattanooga; M.S., Baylor University; Ph.D., University of Houston. Professor of Psychology.
- David Light**, 1976. B.S., Arkansas State University; M.B.A., North Texas State University. Assistant Professor of Marketing.
- Bernard Linden**, 1960. B.F.A., University of Pennsylvania; M.M., D.M.A., University of Michigan. Professor of Music Performance Studies.
- Richard H. Lineback**, 1965. B.A., University of Cincinnati; M.A., Ph.D., Indiana University. Professor of Philosophy.
- Mildred Lintner**, 1969. B.S.Ed., M.A., Temple University; Ph.D., University of Michigan. Assistant Professor of Speech Communication.
- Loy D. Littlefield**, 1966. B.A., M.A., University of Oklahoma; Ph.D., Northwestern University. Associate Professor of Philosophy.
- Nora Yan-Shu Liu**, 1976. B.Ed., Taiwan Normal University; M.S., Ph.D., University of Illinois. Assistant Professor of Physical Education and Recreation.
- Robert Livengood**, 1967. B.S., M.Ed., Bowling Green State University; Registered Physical Therapist, Ohio, Pennsylvania. Associate Professor of Health and Physical Education.
- Lenita C. Locey**, 1969. B.S., M.A., M.Ph., Ph.D., University of Kansas. Associate Professor of Romance Languages.
- Michael D. Locey**, 1969. B.A., Wabash College; M.A., M.Ph., Ph.D., University of Kansas. Associate Professor of Romance Languages.
- Barbara Lockard**, 1971. B.M.E., M.M., D.M., Indiana University. Associate Professor of Music Performance Studies.
- Bette Jean Logsdon**, 1970. B.S.Ed., Southern Illinois University; M.S., University of Michigan; Ph.D., Ohio State University. Professor of Physical Education and Recreation.
- Clifford A. Long**, 1959. B.S., M.S., Ph.D., University of Illinois. Professor of Mathematics and Statistics.
- Rex L. Lowe**, 1970. B.S., Ph.D., Iowa State University. Associate Professor of Biological Sciences.
- Steven O. Ludd**, 1976. B.A., M.S., J.D., Ph.D., Syracuse University. Assistant Professor of Political Science.
- Dorothy M. Luedtke**, 1950. B.S.Ed., M.S.Ed., Bowling Green State University. Associate Professor of Physical Education and Recreation.
- Mary Joyce Lunn**, 1971. B.A., Creighton University; M.A., Ph.D., Case Western Reserve University. Assistant Professor of Education.
- Dennis C. Lytle**, 1973. B.S., St. Cloud State University; M.A., University of Minnesota; Ed.D., University of Nebraska. Associate Professor of Business Education.
- Bevans D. Mabry**, 1959. B.B.A., University of Tennessee, Chattanooga; M.S., University of Tennessee; Ph.D., Tulane University. Professor and Chair of Economics.
- Mary Mabry**, 1963***. B.S., Bowling Green State University; M.F.A., Cranbrook Academy of Art. Assistant Professor of Art.
- Robert A. Macguffie**, 1969. B.A., Idaho State University; M.S., Ph.D., University of Utah. Professor of Education.
- Marilyn Madden**, 1968. B.A., University of Oregon; M.A., Middlebury College; Ph.D., Indiana University. Assistant Professor of Romance Languages.
- Diane Magill**, 1977. B.A., California State College; B.S., M.B.A., Bowling Green State University. Instructor in Accounting and Management Information Systems.
- Paul Makara**, 1958. Diploma, Juilliard School of Music; B.M., M.M., Eastman School of Music; D.M.A., University of Michigan. Professor of Music Performance Studies.
- Joseph J. Mancuso**, 1960. B.A., Carleton College; M.S., University of Wisconsin; Ph.D., Michigan State University. Professor of Geology.
- Colleen Mandell**, 1975. B.S., University of Maryland; M.S., Butler University; Ed.D., American University. Assistant Professor of Special Education.
- Maurice I. Mandell**, 1953. B.S., New York University; M.B.A., Syracuse University; D.B.A., Indiana University. Professor and Chair of Marketing.
- Steven L. Mandell**, 1975. B.A., B.S. Ch.E., Lehigh University; M.B.A., University of Pennsylvania; D.B.A., George Washington University. Associate Professor of Accounting and Management Information Systems.
- Teresa A. Marano**, 1976. B.S.Ed., M.Ed., Bowling Green State University. Instructor in Applied Science, Firelands College.
- Howard Markman**, 1977. A.B., Rutgers University; M.A., Ph.D., Indiana University. Assistant Professor of Psychology.
- Edward J. Marks**, 1969. B.S., Temple University; M.M., University of Maryland; Artist Diploma, Curtis Institute of Music. Associate Professor of Music Performance Studies.
- Virginia Marks**, 1973. B.S., Temple University; M.M., American University. Associate Professor of Music Performance Studies.
- Michael T. Marsden**, 1972. B.A., DePaul University; M.A., Purdue University; Ph.D., Bowling Green State University. Associate Professor of Popular Culture; Coordinator, Undergraduate Recruiting.
- Ronald N. Marso**, 1968. B.S., General Beadle State College; M.A., Adams State College; Ed.D., University of Nebraska. Professor of Foundations and Inquiry; Vice Provost for Continuing Education, Regional and Summer Programs.
- Elden W. Martin**, 1963. B.S., M.S., Kansas State University; Ph.D., University of Illinois. Associate Professor of Biological Sciences.
- Richard Dhu Mathey**, 1968. B.M. Capital University; M.M., Bowling Green State University. Associate Professor of Music Education.
- Robert D. Mazur**, 1965. B.F.A., M.F.A., Bowling Green State University. Professor of Art.
- Charles H. McCaghy**, 1970. B.B.A., M.S., M.S., Ph.D., University of Wisconsin. Professor of Sociology.
- Howard L. McCord**, 1971. B.A., University of Texas; M.A., University of Utah. Professor of English; Director, Creative Writing Program.
- Evan E. McFee**, 1967. B.S., Purdue University; M.A., Ball State University; Ed.D., Indiana University. Professor of Education.
- Daniel McGuire**, 1978. B.S., Dyke College. Instructor in Accounting and Management Information Systems.
- Walter F. McKeever**, 1971. A.B., Miami University; Ph.D., University of Rochester. Professor of Psychology.
- James McKenzie**, 1975. B.S., M.Ed., Bowling Green State University. Ph.D., Ohio State University. Assistant Professor of Health and Physical Education.

Eloise McKilric, 1979. B.S., Eastern Kentucky University; M.S., University of Kentucky. Instructor in Home Economics.

Dorothy McKorkle, 1978. A.B., Western College for Women; M.S.W., University of North Carolina. Instructor in Social Work.

Barbara F. McMillen, 1976. B.S., Temple University; M.A., Ph.D., Ohio University. Assistant Professor of English.

Fred R. McMorris, 1969. B.S., Beloit College; M.A., University of California, Riverside; Ph.D., University of Wisconsin. Professor of Mathematics and Statistics.

Robert A. McOmber, 1977. B.S., Bowling Green State University; J.D., University of Michigan; M.B.A., Bowling Green State University. Instructor of Finance and Insurance.

Donald H. McQuarrie, 1973. B.S., M.A., Ph.D., University of Texas. Assistant Professor of Sociology.

Charles L. Means, 1974. B.S., Southern Illinois University; M.A., Webster College; Ph.D., St. Louis University. Assistant Professor of Sociology and Vice Provost for Educational Development.

Shirley E. Meeker, 1971. B.A., University of North Dakota; M.A., Ph.D., University of Iowa. Associate Professor of Political Science.

David T. Melle, 1967. B.S. Bowling Green State University; M.F.A., University of Iowa. Associate Professor of Music Performance Studies.

David Meronk, 1967. B.A., Marquette University; M.S., Ph.D., University of Notre Dame. Associate Professor of Mathematics and Statistics.

John G. Merriam, 1967. B.A., Hamilton College; M.A., Boston University; Ph.D., Indiana University. Associate Professor of Political Science.

Lee Arthur Meserve, 1973. B.S., University of Maine; Ph.D., Rutgers University. Assistant Professor of Biological Sciences.

Michael Mesner, 1979. B.S., John Carroll University. Instructor in Applied Science, Firelands College.

Richard E. Messer, 1975. B.A., University of Northern Colorado; M.A., University of Colorado; Ph.D., University of Denver. Associate Professor of English.

Norman J. Meyer, 1959. B.A., University of South Dakota; Ph.D., University of Kansas. Professor of Chemistry.

Robert B. Meyers, 1969. B.A., St. Vincent College; M.A., Ph.D., University of Pittsburgh. Associate Professor of English.

F. Lee Miesie, 1948. B.A., M.A., Bowling Green State University; Ph.D., D., Ohio State University. Professor of Speech Communication.

Dwight R. Miller, 1965. B.A., M.A., University of Nebraska, Omaha; Ph.D., University of Minnesota. Professor of Education.

Fred D. Miller, 1972. A.B., Portland State University; M.A., Ph.D., University of Washington. Associate Professor and Chair of Philosophy.

Leland R. Miller, 1971. B.S., Bluffton College; M.A., Ed.S., Bowling Green State University; Ph.D., University of Missouri. Associate Professor of Computer Science.

Marjorie L. Miller, 1973. B.S., M.S., University of Illinois. Instructor in Home Economics.

Patricia Mills, 1970. B.A., M.Ed., Miami University; Ph.D., Ohio State University. Associate Professor of Curriculum and Instruction; Assistant Dean, College of Education.

Theresa Milne, 1971. B.A., Marygrove College; M.A., University of Detroit. Instructor in Education.

Willard E. Milsfeldt, 1967. B.S., M.F.A., University of Minnesota; Ph.D., Washington University. Associate Professor of Art.

Ray Montagno, 1978. B.S., University of Dayton; M.A., Western Michigan University. Assistant Professor of Management.

Robert C. Moomaw, 1966. B.S., Ohio State University; M.Ed., Bowling Green State University; Ph.D., Ohio State University. Professor of Education.

Michael A. Moore, 1965***. B.A., College of Wooster; M.A., Ph.D., Case Western Reserve University. Associate Professor of History; Acting Assistant Dean, Firelands College.

Robert J. Moore, 1966. B.M., Oberlin Conservatory; M.M., University of Maryland. Professor of Music Performance Studies.

Beatrice K. Morton, 1969. B.A., M.A., Ph.D., University of Utah. Associate Professor of English.

Charles F. Mott, 1966. B.S., University of Dayton; M.A., Ph.D., Indiana University. Associate Professor of Applied Statistics and Operations Research.

Kenneth F. Mucker, 1970. B.S., Ph. D., Ohio State University. Associate Professor of Physics.

Paul Mueller, 1976. B.B.A., M.B.A., Ph.D., University of Kentucky. Assistant Professor of Finance and Insurance.

Coleman Mullins, 1977. B.S., M.B.A., Bowling Green State University. Instructor in Management.

Norman J. Myers, 1970. A.B., Hiram College; M.A., Ph.D., University of Illinois. Associate Professor of Speech Communication.

Joyce P. T. Myles, 1966. B.S., M.Ed., Bowling Green State University. Assistant Professor of Education.

Clifford R. Mynatt, 1972. B.S., University of Tennessee; Ph.D., Indiana University. Assistant Professor of Psychology.

John G. Nachbar, 1973. B.A., College of St. Thomas; M.A., Purdue University; Ph.D., Bowling Green State University. Associate Professor of Popular Culture.

Mostafa H. Nagi, 1969. B.S., Cairo University; M.A., Bowling Green State University; Ph.D., University of Connecticut. Associate Professor of Sociology.

Z. Michael Nagy, 1970. B.A., Bucknell University; M.A., Ph.D., Princeton University. Professor of Psychology.

Leo J. Navin, 1965***. B.A., St. Joseph College; M.A., Ph.D., Michigan State University. Professor of Economics.

Arthur G. Neal, 1960. B.A., Concord College; M.A., Ph.D., Ohio State University. Professor of Sociology.

Douglas C. Neckers, 1974. A.B., Hope College; Ph.D., University of Kansas. Professor and Chair of Chemistry.

Elizabeth A. Neidecker, 1962. B.S., Ohio State University; M.A., Case Western Reserve University. Associate Professor of Speech.

Donald F. Nelson, 1976. B.A., M.A., Ph.D., University of Minnesota. Assistant Professor of German and Russian.

Ralph B. Nelson, 1960. B.S., Northern Michigan University; M.A., Michigan State University. Assistant Professor of Industrial Education and Technology.

Joseph S. Nemeth, 1965. B.Ed., Duquesne University; M.Ed., Ed.D., University of Pittsburgh. Professor of Education; Director, Reading Clinic.

Dean A. Neumann, 1971. B.S., M.S., Ph.D., University of Wisconsin. Associate Professor of Mathematics and Statistics.

John F. Newby, 1974. B.S., Tennessee State University; M.S., Harvard University; Ph.D., University of Massachusetts. Assistant Professor of Education; Director, Developmental Education Program.

David S. Newman, 1965. B.A., Earlham College; M.S., New York University; Ph.D., University of Pennsylvania. Professor of Chemistry.

Relda Niederhofer, 1969. B.S., M.Ed., Bowling Green State University. Instructor of Biology, Firelands College.

- Reginald D. Noble**, 1969. B.A., M.A., Marshall University; Ph.D., Ohio State University. Associate Professor of Biological Sciences.
- David A. Nordquest**, 1979. B.A., Oberlin College; M.A., Ph.D., Duke University. Assistant Professor of Natural and Social Sciences, Firelands College.
- Robert E. Norland Jr.**, 1976. B.S., Moravian College; M.A., Pennsylvania State University; Ph.D., Stanford University. Assistant Professor of Applied Statistics and Operations Research.
- Victor T. Norton**, 1970. B.S., Yale University; M.A., Ph.D., University of Michigan. Assistant Professor of Mathematics and Statistics.
- George E. Novak**, 1970. B.M., Oberlin College; M.M., Manhattan School of Music. Assistant Professor of Music Performance Studies.
- Jill D. Nyberg**, 1977. B.S., M.S., University of Minnesota. Instructor in Home Economics.
- Nelson R. Ober**, 1966. B.S., M.S., University of Kansas. Assistant Professor of Speech Communication.
- Thomas V. O'Brien**, 1969. B.S., M.S., Xavier University; Ph.D., Syracuse University. Associate Professor of Mathematics and Statistics.
- Phillip F. O'Connor**, 1967. B.S., University of California, San Francisco; M.A., California State University, San Francisco; M.F.A., University of Iowa. Professor of English.
- Otto G. Ocviirk**, 1950. B.F.A., M.F.A., University of Iowa. Professor of Art.
- Ronald R. Olsen**, 1971. A.B., St. Olaf College; M.S., Purdue University; Ph.D., University of Virginia. Associate Professor of Chemistry and Natural and Social Sciences, Firelands College.
- James R. Ostas**, 1969. B.A., Case Western Reserve University; M.A., Ph.D., Indiana University. Associate Professor of Economics.
- David M. Ostroff**, 1979. A.B., M.A., California State University; Ph.D., Ohio University. Assistant Professor of Speech Communication.
- Donald E. Owen**, 1963. B.S., Lamar University; M.S., Ph.D., University of Kansas. Professor of Geology.
- Karl A. Owen**, 1979. B.A., Atlantic Union College; M.A.T., Assumption College. Assistant Professor of Home Economics.
- Gary Paciga**, 1978. B.S., University of Bridgeport; J.D., University of Toledo. Assistant Professor of Legal Studies.
- Raj Na Padmaraj**, 1974. Bachelor of Commerce Honors, University of Madras; M.E., Banarus Hindu University; M.B.A., Bowling Green State University; Ph.D., Ohio State University. Associate Professor of Finance and Insurance.
- Janis Louise Pallister**, 1961. B.A., M.A., Ph.D., University of Minnesota; Certificate, University of Sorbonne, Paris. Professor of Romance Languages and University Professor.
- Anthony J. Palumbo**, 1968. B.S., M.Ed., Bowling Green State University. Assistant Professor of Industrial Education and Technology.
- Jaak Panksepp**, 1972. B.S., University of Pittsburgh; M.S., Ph.D., University of Massachusetts. Professor of Psychology.
- James Parenica**, 1978. B.S., M.B.A., Bowling Green State University. Instructor in Management.
- Kenneth Pargament**, 1979. B.A., M.A., Ph.D., University of Maryland. Assistant Professor of Psychology.
- Paul E. Parnell**, 1960. B.Ed., State University of New York, Brockport; M.A., Ph.D., New York University. Professor of English.
- Terry W. Parsons**, 1970. B.A., Denison University; M.Ed., Bowling Green State University; Ph.D., Ohio State University. Professor of Health, Physical Education, and Recreation; Assistant to the Dean, College of Education.
- Ronald L. Partin**, 1975. B.S., M.Ed., Bowling Green State University; Ph.D., University of Toledo. Assistant Professor of Education; Coordinator, Advanced Programs.
- Robert A. Patton**, 1967. B.A., Tarkio College; M.A., Ph.D., University of Missouri. Professor and Chair of Applied Statistics and Operations Research.
- Fayetta M. Paulsen**, 1963. B.S., Western Michigan University; M.S., MacMurray College. Associate Professor; Assistant Vice Provost for Residence Life.
- Edmund F. Pawlowicz**, 1970. B.E.E., M.Sc., Ph.D., Ohio State University. Associate Professor of Geology.
- Cloyd A. Payne**, 1978. B.S., Bowling Green State University; M.S. University of Illinois; Ph.D., University of Toledo. Assistant Professor of Natural and Social Sciences, Firelands College.
- Michael M. Pearson**, 1971. B.A., Gustavus Adolphus College; M.B.A., D.B.A., University of Colorado. Associate Professor of Marketing.
- Wayne F. Perg**, 1973. B.A., Kalamazoo College; M.S., Ph.D., Purdue University. Associate Professor and Chair of Finance and Insurance.
- Marilyn B. Perlmutter**, 1972. B.A., Brandeis University; M.A., University of Denver. Assistant Professor of Speech Communication.
- Joseph B. Perry Jr.**, 1959. B.S., North Texas State University; M.A., University of Texas; Ph.D., Washington State University. Professor of Sociology.
- Robert Perry**, 1970. B.A., M.A., Bowling Green State University; Ph.D., Wayne State University. Associate Professor; Chair of Ethnic Studies.
- Adella M. Peters**, 1968. B.A., Valparaiso University; M.A., Ed.D., University of Rochester. Professor of Education; Director, Environmental Studies Center.
- Patricia L. Peterson**, 1963. B.S. Ed., Wittenberg University; M.P.E., Indiana University. Assistant Professor of Physical Education and Recreation.
- John F. Pettibone**, 1970. B.A., Ball State University; M.A., Ph.D., Ohio State University. Associate Professor of Journalism.
- Trevor J. Phillips**, 1963. B.A., Sir George Williams University; Diploma, McGill University Institute of Education; M.A., Ph.D., University of Connecticut. Professor of Education.
- Barry Piersol**, 1977. B.S., M.Ed., Millersville State College. Instructor in Technology.
- Jon R. Piersol**, 1969. B.A., M.A., Ph.D., University of Iowa. Associate Professor of Music Education; Associate Dean for Academic Affairs, College of Musical Arts.
- Fred Pigge**, 1964. B.S., Rio Grande College; M.Ed., Ph.D., Ohio University. Professor of Education; Director, Educational Research and Services, College of Education.
- James Pinchak**, 1975. B.S., Miami University; M.E., Kent State University. Lecturer in Business Education.
- Peter Pinto**, 1976. B.E., College of Engineering, Banalore, India; M.B.A., Indian Institute of Management; Ph.D., University of North Carolina. Associate Professor of Management.
- John Piper**, 1967. B.A., Mt. Union College; M.Ed., Bowling Green State University; Ph.D., Ohio State University. Associate Professor of Health and Physical Education.
- James B. Plaut**, 1968. B.S., M.Ed., Bowling Green State University. Assistant Professor of Health and Physical Education; Lacrosse Coach.
- Nell A. Pohlmann**, 1962***. B.S., M.Ed., Ed.S., Bowling Green State University; D.Ed., Wayne State University. Professor of Education.

Gene W. Poor, 1972. B.S. M.E., Kent State University; Ph.D., Bowling Green State University. Associate Professor of Technology.

David J. Pope, 1963. B.M., M.M., Florida State University. Associate Professor of Music Performance Studies.

Andreas Poullmenos, 1971. B.A., M.M., Boston Conservatory of Music. Associate Professor of Music Performance Studies.

Angela Poulos, 1968. A.B., M.A., Indiana University. Associate Professor; Librarian.

George J. Poulos, 1968. A.B., M.A., Indiana University. Assistant Professor; Librarian.

Boleslav S. Povsic, 1963. Maturita Classica, Ginnasio-Liceo Massimo D'Azeglio; Laurea di Dottore in Lettere, University of Rome. Professor of Romance Languages.

Frances Povsic, 1978. M.S.L.S., Case Western Reserve University. Assistant Professor; Librarian.

Diane Goodrich Pretzer, 1962. B.A., Knox College; M.A., University of Iowa; Ph.D., Indiana University. Associate Professor of Romance Languages.

Wallace L. Pretzer, 1963. B.A., Valparaiso University; M.A., Ed.D., University of Michigan. Associate Professor of English.

Conrad Pritscher, 1969. B.S.S., St. Mary's College; M.A., De Paul University; Ph.D., University of Toledo. Associate Professor of Education.

Roger L. Ptak, 1968. B.S., University of Detroit; M.S., Ph.D., Cornell University. Professor of Physics.

Meredith D. Pugh, 1969. B.A., Macalester College; M.A., Ph.D., University of Connecticut. Associate Professor of Sociology.

David Pumpa, 1978. B.S., M.B.A., Bowling Green State University. Instructor in Accounting and Management Information Systems.

R. Donald Purvis, 1971. B.S.Ed., M.Ed., Bowling Green State University. Assistant Professor of Health and Physical Education; Head Baseball Coach.

Michael Pustay, 1978. B.A., Washington and Lee University; M.Phil., Ph.D., Yale University. Associate Professor of Economics.

Emil Raab, 1969. B.M., M.M., University of Michigan. Professor of Music Performance Studies.

Francis C. Rabalais, 1968. B.S., University of Southwestern Louisiana; M.S., Ph.D., Louisiana State University. Associate Professor of Biological Sciences.

Bernard Rabin, 1955. B.Ed., State University of New York, Plattsburgh; M.A.Ed., Syracuse University; Ed.D., Columbia University. Professor of Education.

Deanna Radeloff, 1973. B.S., Bowling Green State University; M.S., Ohio State University; Ed.S., University of Toledo. Associate Professor of Home Economics.

Donald M. Ragusa, 1965. B.A., M.A., Ph.D., State University of New York, Buffalo. Associate Professor of Psychology; Associate Dean, College of Arts and Sciences.

Karl G. Rahdert, 1960. B.S., M.B.A., D.B.A., Indiana University. Professor of Management.

James David Reed, 1968. B.B.A., Washburn University; Ph.D., Kansas State University. Associate Professor of Economics.

Robert L. Reed, 1969. B.S., M.S., Ed.D., University of Kansas. Associate Professor and Chair of Educational Foundations and Inquiry.

William O. Reichert, 1968. B.A., Transylvania College; M.A., University of Kentucky; Ph.D., University of Minnesota. Professor and Chair of Political Science.

Patricia Remington, 1978. B.A., State University of New York, Binghamton; M.A., Ph.D., University of Pittsburgh. Assistant Professor of Ethnic Studies.

George Rendina, 1967. B.A., Washington Square College, New York University; M.A., Ph.D., University of Kansas. Professor of Chemistry.

Lois Renker, 1971. B.S., Syracuse University; M.S., Ph.D., Ohio State University. Registered Dietitian. Associate Professor of Home Economics.

Audrey L. Rentz, 1974. A.B., College of Mt. St. Vincent; M.S., Pennsylvania State University; Ph.D., Michigan State University. Associate Professor of College Student Personnel.

Joan Repp, 1978. B.S., State University of New York, Oswego; M.Ed., University of Maryland. Assistant Professor; Librarian.

Victor E. Repp, 1960. B.S.Ed., State University of New York, Oswego; M.Ed., University of Maryland; D.Ed., Pennsylvania State University. Professor of Industrial Education and Technology.

Bill J. Reynolds, 1967. B.S., Kansas State University; M.S., Ed.D., University of Kansas. Professor of Education.

Joanne Martin Reynolds, 1974. B.A., University of Northern Iowa; M.A., University of Kansas. Assistant Professor of Education.

Charles C. Rich, 1958. B.A., Wittenberg University; M.A., Ph.D., Harvard University. Professor of Geology.

John T. Rickey, 1967. M.S., M.A., Kent State University; Ph.D., Ohio State University. Professor of Speech Communication.

V. Frederick Rickey, 1968. B.S., Ph.D., University of Notre Dame. Professor of Mathematics and Statistics.

Armin Riesen, 1976. B.S.Ed., Wittenberg College; M.S.Ed., Bowling Green State University. Lecturer in Health and Physical Education, Wrestling Coach.

Gerald Rigby, 1971. B.A., M.A., Louisiana State University; Ph.D., University of California. Professor of Political Science; Director, Criminal Justice Program.

Elton C. Ringer, 1946. B.S.Ed., M.S.Ed., Ed.S., Ph.D., Bowling Green State University. Professor; Associate Vice President, University Budgets.

Blaine Ritts, 1978. B.S., M.S., Pennsylvania State University; Ph.D., Michigan State University. Associate Professor of Accounting and Management Information Systems.

Kenneth A. Robb, 1970. B.A., Colgate University; M.A., University of Rochester; Ph.D., University of Wisconsin. Associate Professor of English.

Kelth A. Roberts, 1976. B.A., Muskingum College; Th.M., Ph.D., Boston University. Assistant Professor of Natural and Social Sciences, Firelands College.

Michael H. Robins, 1969. B.A., University of Illinois; M.A., Roosevelt University; Ph.D., Northwestern University. Associate Professor of Philosophy.

Elnae Robinson, 1979. B.A., Carnegie Mellon University; M.S., Indiana University. University Community Psychologist and Assistant Professor in Counseling and Career Development Center.

William R. Rock, 1958. B.A., Gettysburg College; M.A., Ph.D., Duke University. Professor of History.

Carlton Lee Rockett, 1971. B.S., M.S., Ph.D., Louisiana State University. Associate Professor of Biological Sciences.

Eleanor Roemer, 1976. B.A., Agnes Scott College; M.A., Ph.D., University of Washington. Assistant Professor of Educational Foundations and Inquiry.

David C. Rogers, 1965. B.M., M.M., University of Michigan. Associate Professor of Music Performance Studies; Assistant to the Dean, College of Musical Arts.

Vijay K. Rohatgi, 1972. B.S., M.A., Delhi University; M.S., University of Alberta; Ph.D., Michigan State University. Professor of Mathematics and Statistics.

David C. Roller, 1964. B.A., College of William and Mary; M.A., Ph.D., Duke University. Associate Professor of History.

- Robert C. Romans**, 1969. B.S., M.S.T., University of Wisconsin; Ph.D., Arizona State University. Associate Professor of Biological Sciences.
- Karen Ronquist**, 1974. B.A., M.A., Northern Michigan University; Ph.D., Wayne State University. Assistant Professor of Education and Extension Programs.
- Jerome H. Rose**, 1963. B.S., Mannes School of Music; M.S., Juilliard School of Music. Professor of Music Performance Studies; Artist-in-Residence in Piano.
- Timothy L. Ross**, 1965. B.S., M.B.A., Bowling Green State University; Ph.D., Michigan State University. Certified Public Accountant, Ohio. Professor of Accounting and Management Information Systems.
- Herbert J. Rotfeld**, 1979. B.S., M.S., Ph.D., University of Illinois at Urbana-Champaign. Assistant Professor of Marketing.
- Kenneth Rothrock**, 1968. B.S., Ph.D., University of Kansas. Associate Professor of Sociology.
- Don K. Rowney**, 1963. B.A., St. Meinrad Seminary; M.A., Area Certificate-Russian Institute; Ph.D., Indiana University. Professor of History.
- Ronald M. Ruble**, 1970. B.A., Otterbein College; M.A., Ph.D., Bowling Green State University. Associate Professor of Speech and Humanities, Firelands College.
- Joel Rudinger**, 1967. B.S., Bowling Green State University; M.A., University of Alaska; M.F.A., University of Iowa; Ph.D., Bowling Green State University. Associate Professor of English and Humanities, Firelands College.
- James J. Ruehl**, 1956. B.S., Ohio State University; M.S., Bowling Green State University. Associate Professor of Health and Physical Education; Director, Ice Arena.
- Rene Ruiz**, 1967. Bachiller, Institute of Santa Clara; M.A., Doctor in Law, University of Havana; Ph.D., New York University. Professor of Romance Languages.
- Paul D. Running**, 1965. B.A., St. Olaf College; M.F.A., Ph.D., University of Iowa. Professor of Art.
- Ronald Russell**, 1978. B.A., Florida Southern College; M.Div., Emory University; M.S., Ph.D., Pennsylvania State University. Associate Professor and Chair of Home Economics.
- L. David Sabbagh**, 1967. B.S., M.S., Ph.D., Purdue University. Associate Professor of Mathematics and Statistics.
- Gerald L. Saddlemyre**, 1969. B.A., State University of New York; M.A., D.Ed., Teachers College, Columbia University. Professor and Chair of College Student Personnel.
- Ralph C. St. John**, 1973. B.S., University of Maine; M.S., University of Massachusetts; Ph.D., University of Wisconsin. Associate Professor of Applied Statistics and Operations Research.
- Sally Parent Sakola**, 1968. B.S., M.A., Michigan State University. Assistant Professor of Physical Education and Recreation.
- Brownell Salomon**, 1966. B.A., M.A., University of Florida; Ph.D., Tulane University. Associate Professor of English.
- John Sampen**, 1977. B.M., M.M., Northwestern University. Assistant Professor of Music Performance Studies.
- Karin Sandell**, 1977. B.A., University of Minnesota; M.A., Illinois State University; Ph.D., University of Iowa. Assistant Professor of Speech Communication.
- Maurice O. Sandy**, 1962. B.S.Ed., Bowling Green State University; M.S., University of California, Los Angeles. Associate Professor of Health and Physical Education; Director, Intramural Sports.
- Motupalli Satyanarayana**, 1966. B.S., Hindu College; M.A., Andhra University; Ph.D., University of Wisconsin. Professor of Mathematics and Statistics.
- Charlotte Scherer**, 1971***. A.B., Wayne State University; M.S., State University of New York, Cortland; Ph.D., Bowling Green State University. Assistant Professor of Education.
- Donald W. Scherer**, 1967. B.A., Wayne State University; Ph.D., Cornell University. Professor of Philosophy.
- Lowell Schipper**, 1971. B.S., M.S., Ph.D., University of Wisconsin. Professor of Psychology.
- Klaus M. Schmidt**, 1969. Staatsexamen I, Eberhard Karls University, Tübingen Staatsexamen II, Teachers Training College, Stuttgart; Ph.D., University of Michigan. Associate Professor of German and Russian.
- Evelyn R. Schneider**, 1979. B.S., St. John College of Cleveland; M.S., Case Western Reserve University; Specialist in Arts, Western Michigan University; Ph.D., University of Akron. Assistant Professor of Library and Educational Media.
- O. Dale Schnetzer**, 1970. A.B., Franklin and Marshall College; M.A., University of Illinois; Ph.D., Johns Hopkins University. Assistant Professor of Humanities, Firelands College.
- Janet A. Schnupp-Lee**, 1970. B.S., M.A., Bowling Green State University. Assistant Professor of Educational Curriculum and Instruction.
- Warren J. Scholler**, 1958. B.S.Ed., Ohio State University; M.Ed., Xavier University. Assistant Professor of Health and Physical Education.
- John R. Schuck**, 1960***. B.A., Ohio State University; M.A., Bowling Green State University; Ph.D., Ohio State University. Professor of Psychology.
- William L. Schurk**, 1967. B.A., Bowling Green State University; M.S.L.S., Case Western Reserve University. Assistant Professor; Librarian.
- Karl M. Schurr**, 1962. B.A., M.A., Bowling Green State University; Ph.D., University of Minnesota. Professor of Biological Sciences.
- John Paul Scott**, 1965. B.A., University of Wyoming; M.A., Oxford University; Ph.D., University of Chicago. Research Professor of Psychology; Director, Center for Research on Social Behavior. Regents Professor.
- John Sherman Scott**, 1969. B.A., South Carolina State College; M.A., Ph.D., Bowling Green State University. Associate Professor of Speech and Playwright in Residence.
- William M. Scovell**, 1974. B.S., Lebanon Valley College; Ph.D., University of Minnesota. Professor of Chemistry.
- Ronald E. Seavoy**, 1965. B.A., M.A., Ph.D., University of Michigan. Associate Professor of History.
- George G. Selfert**, 1967. B.A., Antioch College; M.A., Ph.D., Case Western Reserve University. Professor of Education.
- Maurice Seigny**, 1977. B.S.Ed., Massachusetts College of Art; M.A., Ph.D., Ohio State University. Associate Professor and Director, School of Art.
- Melvin Shelly**, 1977. B.A., College of Wooster; M.Ed., Temple University; M.S., University of Pennsylvania; M.A., Ph.D., University of Michigan. Assistant Professor of Education.
- Kenneth M. Shemberg**, 1966. B.A., University of Denver; Ph.D., University of Nebraska. Professor of Psychology.
- Ervin Shlenbaum**, 1978. B.S., Temple University; M.A., Ph.D., New York University. Assistant Professor of Political Science.
- Edward Shih**, 1978. B.A., Taiwan Provincial Chung Hsing University; M.S., Wright State University. Assistant Professor of Economics.
- Wei Shih**, 1972. B.A., National Taiwan University; M.B.A., City University of New York; Ph.D., New York University. Professor of Applied Statistics and Operations Research.
- Charles Shirkey**, 1969. B.S., Ph.D., Ohio State University. Associate Professor of Physics.
- Dzilda Shilaku**, 1959. Graduate Abitur, Classical Gymnasium, Jelgava, Latvia; Ph.D., University of Bologna. Associate Professor of German and Russian.
- Mohan N. Shrestha**, 1967. B.A., Tri-Chandra College; B.Ed., College of Education, Nepal; M.A., Tribhuvan University; Ph.D., University of Iowa. Associate Professor of Geography.

L. Edward Shuck Jr., 1964. B.A., Stanford University; M.A., Ph.D., University of Southern California. Associate Professor; Director, International Programs.

M. Joy Sidwell, 1964. B.S., M.A., Michigan State University. Assistant Professor of Physical Education and Recreation.

Irwin W. Silverman, 1968. B.A., Brooklyn College; M.S., Ph.D., Purdue University. Associate Professor of Psychology.

Charles Simpson, 1974. B.S., Southwest Missouri State University; M.Ed., University of Missouri; Ph.D., Indiana University. Assistant Professor of Physical Education and Recreation.

Edgar B. Singleton, 1959. B.S., M.S., Ohio University; Ph.D., Ohio State University. Professor of Physics.

Theodore Sipes, 1975. B.S., M.Ed., Bowling Green State University; Ed.D., Wayne State University. Assistant Professor of Industrial Education and Technology.

David C. Skaggs, 1965. B.S., M.A., University of Kansas; Ph.D., Georgetown University. Professor of History.

Irene Skinner, 1966. B.S., M.S., Cornell University. Assistant Professor of Home Economics.

Sandra D. Skinner, 1976. B.S., Framingham State College; M.S., Ohio State University. Instructor in Home Economics.

Bruce W. Smith, 1970. B.A., State University of New York, Potsdam; M.A., Ph.D., University of Illinois. Associate Professor of Geography.

Kirk Howard Smith, 1971. B.A., University of Washington; Ph.D., University of Minnesota. Professor of Psychology.

Dennis W. Smith, 1977. B.S., M.A., Bowling Green State University. Instructor in Humanities, Firelands College.

Larry R. Smith, 1970. B.A., Muskingum College; M.A., Ph.D., Kent State University. Associate Professor of English and Humanities, Firelands College.

Mark Smith, 1979. B.A., Queens College, City University of New York; M.A., University of California, Santa Barbara; M.S.L.S., University of Southern California. Assistant Professor; Librarian.

Olin W. Smith, 1966. A.B., Ph.D., Cornell University. Research Professor of Psychology.

Patricia C. Smith, 1966. B.A., University of Nebraska; Ph.D., Cornell University. Professor of Psychology.

Raymond F. Sniipes, 1967. B.S., University of North Carolina; M.S., Ph.D., Yale University; Ph.D., University of Virginia. Associate Professor of Mathematics and Statistics.

Eldon E. Snyder, 1964. B.A., Southwestern College; M.S.Ed., Ed.D., University of Kansas. Professor of Sociology.

Marilyn J. Solt, 1970. B.S., Wayne State University; M.A., Ph.D., Bowling Green State University. Assistant Professor of English.

Patricia Soltwedel, 1972. B.S., M.S., Southern Illinois University. Instructor in Home Economics.

William R. Speer, 1976. B.S., M.S.Ed., Northern Illinois University; Ph.D., Kent State University. Assistant Professor of Education.

Robert R. Speers, 1973. B.S., University of Michigan; M.S., Ph.D., Ohio State University. Associate Professor of Applied Sciences, Firelands College.

Melville R. Spence, 1970. B.A., Beloit College; M.A.L.S., Case Western Reserve University. Professor; Libraries.

Herbert A. Spencer Jr., 1971. B.M., Eastman School of Music; M.M., M.S., Ithaca College. Associate Professor of Music Performance Studies.

Joseph G. Spinelli, 1969. B.S., M.A., Ohio State University; Ph.D., University of Florida. Associate Professor and Chair of Geography.

Charles Spontelli, 1977. B.S., Kent State University. Assistant Professor of Technology.

William C. Spragens, 1969. A.B., M.A., University of Kentucky; Ph.D., Michigan State University. Associate Professor of Political Science.

Elmer A. Spreitzer, 1969. B.S., John Carroll University; M.A., Case Western Reserve University; Ph.D., Ohio State University. Professor of Sociology; Associate Dean, Graduate College.

Beatrice Spriggs, 1965. B.A., Mary Hardin-Baylor College; M.A.L.S., University of Denver. Assistant Professor; Librarian.

Vakula S. Srinivasan, 1971. B.S., M.A., University of Madras; Ph.D., Louisiana State University. Professor of Chemistry.

Genevieve E. Stang, 1967. B.S., M.S., Illinois State University; Ph.D., University of Minnesota. Associate Professor of Education.

Virginia Starr, 1968. B.M., University of Denver; M.M., University of Illinois. Associate Professor of Music Performance Studies.

Nancy G. Steen, 1966. B.A., M.A., Bowling Green State University; A.M.L.S., University of Michigan. Assistant Professor; Librarian.

Ray P. Steiner, 1968. B.S., M.A., University of Arizona; Ph.D., Arizona State University. Professor of Mathematics and Statistics.

Don C. Steinker, 1967. B.S., Indiana University; M.S., University of Kansas; Ph.D., University of California, Berkeley. Professor of Geology.

V. Jerone Stephens, 1970. B.A., Georgia State University; M.A., Ph.D., Indiana University. Associate Professor of Political Science.

Donald L. Sternitzke, 1967. B.S.C., M.A., Ph.D., University of Iowa. Professor of Economics.

Bernard Sternsher, 1969. B.A., University of Alabama; A.M., Ph.D., Boston University. University Professor of History.

Dion C. Stewart, 1980. B.S., Michigan State University; M.S., Pennsylvania State University. Instructor in Geology.

John J. Stickler, 1970. B.A., Western Michigan University; M.A., Ph.D., Michigan State University. Assistant Professor of German and Russian.

Elizabeth Stimson, 1977. A.B., M.Ed., Ed.D., University of Toledo. Assistant Professor of Education.

Robert E. Stinson, 1949. B.F.A., University of Illinois; M.A., M.F.A. University of Iowa. Professor of Art.

Jacquelin A. Stitt, 1973. B.S., Indiana University; M.S., Clarion State College; Ed.D., Indiana University. Assistant Professor of Educational Curriculum and Instruction.

Edward Grant Stockwell, 1971. B.A., Harvard University; M.A., University of Connecticut; Ph.D., Brown University. Professor of Sociology.

Winifred Stone, 1971. B.A., West Virginia State College; M.Ed., University of Toledo; Ph.D., Florida State University. Associate Professor of Ethnic Studies; Assistant Dean and Director of Graduate Admissions, Graduate College.

Ronald E. Stoner, 1965. B.S., Wabash College; M.S., Ph.D., Purdue University. Professor of Physics.

Carney C. Strange, 1978. B.A., St. Meinrad College; M.A., Ph.D., University of Iowa. Assistant Professor of College Student Personnel.

Jerry Streicher, 1967. B.S., Newark State College; M.A., Montclair State College; Ph.D., New York University. Professor of Industrial Education and Technology and Director, School of Technology.

James D. Stuart, 1968. B.S.L., Th.B., Cincinnati Bible Seminary; M.A., Ph.D., University of Cincinnati. Associate Professor of Philosophy.

Thomas G. Stubbs, 1963. B.S.Ed., Bowling Green State University; M.A., Kent State University. Assistant Professor of Health and Physical Education; Aquatics Director and Varsity Swimming Coach.

- James A. Sullivan**, 1971. A.B., Miami University; M.S., Ph.D., Ohio State University. Associate Professor of Applied Statistics and Operations Research.
- Janet S. Sullivan**, 1976. B.A., M.S., Purdue University; Ph.D., Northern Illinois University. Assistant Professor of Library and Educational Media.
- Kalman S. Szekely**, 1968. B.A., Bowling Green State University; M.A., Western Michigan University. Associate Professor; Librarian.
- P. Thomas Tallarico**, 1978. B.S., Indiana University of Pennsylvania; M.M., Duquesne University; Ph.D., West Virginia University. Associate Professor and Chair of Music Education.
- Deborah A. Tell**, 1979. B.S., Eastern Michigan University; M.F.A., University of Michigan. Assistant Professor in the College of Health, Physical Education, and Recreation.
- Ina G. Temple**, 1966. B.S., M.S., University of Wisconsin; Ph.D., University of Toledo. Associate Professor of Health and Physical Education.
- Wallace L. Terwilliger**, 1965. B.S., Clarion State College; M.A., Ph.D., Washington State University. Associate Professor and Chair of Mathematics and Statistics.
- Roger Thibault**, 1975. B.S., University of Wisconsin; Ph.D., University of Connecticut. Assistant Professor of Biological Sciences.
- Charles W. Thomas**, 1974. B.S., MacMurray College; M.A., Ph.D., University of Kentucky. Professor of Sociology; dual appointment in College of Health and Community Services.
- Jack Ray Thomas**, 1965. B.A., Youngstown State University; M.A., Kent State University; Ph.D., Ohio State University. Professor of History.
- Richard T. Thomas**, 1972. B.S., M.S., Ph.D., Southern Methodist University. Associate Professor of Computer Science; Coordinator, University Computing Services.
- Adrian P. Tlo**, 1979. B.A., Temple University; M.F.A., University of Cincinnati. Instructor in Art.
- Aida K. Tomeh**, 1962***. B.A., American University of Beirut; M.A., Ph.D., University of Michigan. Professor of Sociology.
- Edwin Tonnesen**, 1971. B.S., Syracuse University; M.B.A., New York University; Ph.D., Syracuse University. Associate Professor of Management; Associate Dean, College of Business Administration.
- Malachi C. Topping**, 1970. A.B., Washington University; M.A., Ph.D., Ohio State University. Professor of Speech.
- John R. Toscano**, 1963. B.A., M.A., University of Wyoming; Ed.D., Stanford University. Professor of Education; Coordinator, Advanced Programs, College of Education.
- Ralph N. Townsend**, 1960. B.S., Illinois Wesleyan University; M.S., Ph.D., University of Illinois. Professor of Mathematics; Associate Dean, College of Arts and Sciences.
- Denise Trauth**, 1977. B.A., College of Mt. St. Joseph; M.A., Ohio State University; Ph.D., University of Iowa. Assistant Professor of Speech Communication.
- William Treat**, 1980. B.S., Miami University; M.L.S., Kent State University. Associate Professor; Director, Technical Services and Systems, University Library.
- Ivan Trusler**, 1966. B.S., M.S., Kansas State College; Ed.D., Columbia University. Professor of Music Education.
- Edward V. Tschappat Jr.**, 1974. B.S., M.Ed., University of Toledo; M.S.T., Cornell University; M.S.Ed., Ph.D., University of Toledo. Assistant Professor of Applied Sciences, Firelands College.
- Duane E. Tucker**, 1959. B.A., Kansas State Teachers College; M.A., Ph.D., University of Wisconsin. Professor of Speech Communication; Director, Television Services.
- Raymond K. Tucker**, 1968. B.A., University of Denver; M.A., Ph.D., Northwestern University. Professor of Speech Communication.
- Daniel J. Tutolo**, 1973. B.S., M.Ed., Kent State University; Ph.D., University of Akron. Associate Professor of Education.
- Ryan D. Tweney**, 1970. B.A., University of Chicago; M.A., Ph.D., Wayne State University. Professor of Psychology.
- Robert W. Twyman**, 1948. B.A., Indiana University; M.A., Ph.D., University of Chicago. Professor of History.
- Harry L. Tyson**, 1967. B.S., New Mexico State University; M.A., Northeast Missouri State University. Instructor in Health and Physical Education.
- Douglas G. Ullman**, 1972. B.A., Rutgers University; M.A., Ph.D., University of Iowa. Associate Professor of Psychology.
- Anthony Van Beysterveldt**, 1969. Master's, Tilburg University; D.Sp., University of Utrecht; D.L., University of Amsterdam. Professor of Romance Languages.
- M. E. Betty van der Smitsen**, 1979. A.B., J.D., University of Kansas; M.S., Re.D., Indiana University. Professor and Director of the School of Health, Physical Education and Recreation.
- H. John van Duyn**, 1978. A.B., Lafayette College; S.T.B., Episcopal Theological School; M.Ed., Ph.D., University of Rochester. Professor and Chair of Special Education.
- Glenn H. Varney**, 1970. B.A., M.B.A., Ohio State University; Ph.D., Case Western Reserve University. Professor of Management.
- Harendra N. Vasudeva**, 1971. B.A., M.A., Panjab University; M.A., Ph.D., University of Michigan. Associate Professor of English.
- Donna Irene Vatan**, 1969. B.S., M.Ed., Texas Tech University. Assistant Professor of Home Economics.
- Russell A. Velich**, 1973. B.S., University of Wisconsin; M.S., Ph.D., Kansas State University. Associate Professor of Psychology.
- Stephen H. Vessey**, 1969. B.A., Swarthmore College; M.S., Ph.D., Pennsylvania State University. Associate Professor of Biological Sciences.
- Lajos Vincze**, 1968. Baccalaureatus, Absolutorium, Ph.D., University of Hungary. Associate Professor of Sociology.
- Karl E. Vogt**, 1968. B.S., College of the Holy Cross; M.A., Ph.D., Syracuse University. Professor of Management; Dean, College of Business Administration.
- Henry Vogtsberger**, 1959. B.A., Oberlin College; M.D., Case Western Reserve University. Associate Professor; Chief of Medical Staff.
- Ellen F. Wachs**, 1979. B.A., R.R.A., College of St. Scholastica. Instructor in Applied Sciences and Medical Record Technology, Firelands College.
- Bernice E. Waggoner**, 1975. B.S., Abilene Christian College; M.S., University of Colorado; Ph.D., Texas Women's University. Professor of Physical Education and Recreation.
- Ralph Wahrman**, 1967. B.A., Queens College; M.A., Ph.D., Michigan State University. Associate Professor of Sociology.
- Lester J. Walters Jr.**, 1970. B.S., University of Tulsa; Ph.D., Massachusetts Institute of Technology. Professor of Geology.
- Jack A. Ward**, 1968. B.S., Ball State University; M.S., Indiana University. Associate Professor, Instructional Media Center.
- Lynn M. Ward**, 1972. B.S., Ohio State University; J.D., University of Akron. Associate Professor of Legal Studies.
- Richard J. Ward**, 1969. B.S., Michigan State University; M.B.A., Pennsylvania State University; D.B.A., University of Colorado. Assistant Professor of Management.
- Robert G. Warehime**, 1968. B.A., Ashbury College; M.A., Kent State University; Ph.D., Ohio State University. Associate Professor of Psychology; Counseling and Career Development.

Ralph C. Warren, 1971. B.S., Eastern Michigan University; M.A., Wayne State University. Associate Professor of Art.

Richard L. Weaver, 1974. A.B., M.A., University of Michigan; Ph.D., Indiana University. Associate Professor of Speech Communication.

Waldemar C. Weber, 1968. B.S., U.S. Naval Academy; M.S., Ph.D., University of Illinois. Associate Professor of Mathematics and Statistics.

David H. Weinberg, 1971. B.A., City College of New York; M.A., Ph.D., University of Wisconsin. Associate Professor of History.

Morris J. Weinberger, 1968. B.A., University of Minnesota; M.Ed., University of Colorado; Ed.D., Teachers College, Columbia University. Professor of Education.

Kenneth A. Wendrich, 1979. B.M., M.M., Eastman School of Music of the University of Rochester. Associate Professor of Music Education and Dean, College of Musical Arts.

Marlynn F. Wentland, 1975. B.S., University of Wisconsin; M.A., University of Mississippi. Instructor, College of Health and Community Services.

James S. West, 1971. B.A., St. Cloud State University; M.A., Mankato State College; Ph.D., University of Nebraska. Associate Professor of Marketing.

Joan Weston, 1976. B.S., Boston University, Sargent; M.S., University of Wisconsin, Madison. Instructor in Physical Education and Recreation.

Virginia Eman Wheelless, 1977. B.A., Kearney State College; M.A., Colorado State University; Ph.D., University of Nebraska. Assistant Professor of Speech Communication.

A. John White, 1966. B.S., M.A., Bowling Green State University. Associate Professor of Health and Physical Education.

Allen S. White, 1967. B.A., University of Maine; M.F.A., Ohio University; Ph.D., Michigan State University. Professor and Director, School of Speech Communication.

Phillip R. Wigg, 1948. B.A., Park College; M.F.A., University of Iowa. Professor of Art.

James R. Wilcox, 1969. B.A., Western Michigan University; M.A., Ph.D., Purdue University. Associate Professor of Speech Communication.

Doris K. Williams, 1965. B.S., M.S., Ohio University; Ph.D., Ohio State University. Associate Professor of Home Economics.

Ellen U. Williams, 1975. B.S.Ed., Bowling Green State University; M.Ed., University of Toledo; Ph.D., Bowling Green State University. Assistant Professor of Special Education.

Fred E. Williams, 1959. B.S., M.A., Florida State University. Ed.D., Indiana University. Professor and Chair of Library and Educational Media.

I. Clay Williams, 1975. B.S., M.S., H.S.D., Indiana University. Associate Professor of Health and Physical Education.

Julian H. Williford Jr., 1978. B.S., M.S., Ph.D., Virginia Polytechnic Institute and State University. Associate Professor of Home Economics.

Larry D. Wills, 1970. B.A., Texas Tech University; M.A., Ph.D., Purdue University. Associate Professor of Education; Coordinator, Secondary and International Teacher Education, College of Education.

Donald M. Wilson, 1967. B.A., University of Chicago; M.A., D.M.A., Cornell University. Associate Professor of Music Composition and History.

Milton E. Wilson, 1968. B.A., Baldwin-Wallace College; J.D., Cleveland State University. Licensed attorney in Ohio, federal courts, and member of the Bar of the United States Supreme Court, United States Court of Claims, United States Tax Court. Professor and Chair of Legal Studies.

Sheila A. Wineman, 1975. B.S., East Central University; M.Ed., Ph.D., University of Utah, Salt Lake City. Assistant Professor of Education.

Vernon Wolcott, 1962. B.M., Curtis Institute; S.M.M., Union Theological Seminary; D.M.A., University of Michigan. Professor of Music Performance Studies.

Ralph H. Wolfe, 1959***. B.S., M.A., Bowling Green State University; Ph.D., Indiana University. Professor of English.

Warren J. Wolfe, 1961. B.A., DePauw University; M.A., Ph.D., Indiana University. Professor of Romance Languages.

Elizabeth Wood, 1979. B.A., M.L.S., University of Michigan. Instructor, University Library.

Floris W. Wood, 1978. B.A., University of Michigan; M.L.S., State University of New York, Albany. Assistant Professor, University Library.

Ronny Woodruff, 1977. B.S., M.S., East Texas State University; Ph.D., Utah State University. Assistant Professor of Biological Sciences.

Bonadine R. Woods, 1962***. B.S., M.S., Ohio State University. Assistant Professor of Home Economics.

Marjorie S. Wright, 1969. B.S.Ed., M.A., M.F.A., Bowling Green State University. Associate Professor of Art.

Paul T. Wright, 1974. B.S., M.Ed., Bowling Green State University; Ph.D., University of Utah. Assistant Professor of Health and Physical Education; Assistant Track Coach.

Richard J. Wright, 1968. B.S., M.A., University of Akron; Ph.D., Kent State University. Associate Professor of History and Director, Center for Archival Collections.

Nancy S. Wygant, 1969. B.S., Miami University; M.Ed., Ed.S., University of Toledo; Ed.D., Indiana University. Associate Professor; Counseling Psychologist, Counseling and Career Development Center.

Thomas L. Wymer, 1966. B.A., Rice University; Ph.D., University of Oklahoma. Associate Professor of English.

Stephanie E. Yaworski, 1975. B.S., Keuka College; M.S., Syracuse University; Ph.D., University of North Dakota. Assistant Professor of Business Education.

Raymond Yeager, 1950. B.S.Ed., M.A., Bowling Green State University; Ph.D., Ohio State University. Professor of Speech Communication.

Robert J. Yonker, 1973. B.S., Ph.D., Kent State University. Associate Professor of Education; Coordinator, Research Development, College of Education.

William J. York, 1967. B.A., University of Northern Iowa; M.A., Ed.D., Teachers College, Columbia University. Professor of Education.

Beverly Zanger, 1969. B.S., Ohio Northern University; M.A., Bowling Green State University. Assistant Professor of Physical Education and Recreation.

Richard A. Zeller, 1976. B.A., LaVerne College; M.A., Ph.D., University of Wisconsin, Madison. Associate Professor of Sociology.

****EMERITI FACULTY**

Iris E. Andrews, 1945. B.S., Battle Creek College; M.A., University of Michigan. Professor Emerita of Physical Education and Recreation.

Robert T. Austin, 1946. B. Ed., University of Toledo; M.Ed., Bowling Green State University; Ed.D., Wayne State University. Professor Emeritus of Industrial Education and Technology.

Florence E. Baird, 1925. B.S.Ed., Bowling Green State University; B.A., M.A., Ohio State University. Associate Professor Emerita of Romance Languages.

Charles A. Barrell, 1940. B.A., Hampden-Sydney College; M.A., University of Virginia; Ph.D., Ohio State University. Professor Emeritus of Political Science.

- Anthony B. Baynard**, 1946. B.A., University of Scranton; M.A., Columbia University. Associate Professor Emeritus of Romance Languages.
- Ralph L. Beck**, 1949. B.S. Indiana State University; M.S., Indiana University; Ed.D., New York University. Professor Emeritus of Education.
- Albert B. Blankenship**, 1971. A.B., Franklin and Marshall College; A.M., University of Oregon; Ph.D., Columbia University. Professor Emeritus of Marketing.
- Robert O. Bone**, B.S.Ed., University of Illinois; M.A., Columbia University. Professor Emeritus of Art.
- Donald W. Bowman**, 1943. B.A., Mt. Union College; M.A., Ph.D., Ohio State University. Professor Emeritus of Physics.
- Prudence L. Brown**, 1947. B.F.A., University of Nebraska; M.A., University of Michigan. Associate Professor Emerita of Speech.
- Irvin H. Brune**, 1963. B.S., College of Wooster; M.A., Ph.D., Ohio State University. Professor Emeritus of Education.
- Edward S. Clafin**, 1947. B.A., Oberlin College; M.A., Ph.D., Yale University. Professor Emeritus of Political Science.
- J. Russel Coffey**, 1948. B.A., M.A., Ohio State University; Ed.D., New York University. Professor Emeritus of Health and Physical Education.
- Florence S. Cook**, 1966. B.A., Bowling Green State University; M.S.L.S., Western Reserve University. Associate Professor Emerita of Library.
- Samuel M. Cooper**, 1946. B.A., Oberlin College; M.A., New York University; Ed.D., Case Western Reserve University. Professor Emeritus of Health and Physical Education.
- Forrest Creason**, 1951. B.A., Findlay College; M.S. in Education, Bowling Green State University. Professor Emeritus of Health and Physical Education.
- John R. Davidson**, 1946. B.S.Ed., Bowling Green State University; M.S., New York University; Ph.D., Ohio State University. Professor Emeritus of Marketing.
- Russell Decker**, 1952. B.A., University of Iowa; J.D., Drake University Law School. Professor Emeritus of Legal Studies.
- Joseph A. Del Porto**, 1968. A.B., University of Pennsylvania; M.A., University of Chicago; Ph.D., Michigan State University. Professor Emeritus of Journalism.
- E. Eugene Dickerman**, 1936. B.A., Grand Island College; M.S., Ph.D., Northwestern University. Professor Emeritus of Biology.
- Gertrude Eppler**, 1941. B.S., Eastern Michigan University; M.S., University of Michigan. Professor Emerita of Health and Physical Education.
- Merle E. Flamm**, 1948. B.A., Ashland College; M.A., University of Michigan. Assistant Professor Emeritus of Physics.
- Lyle R. Fletcher**, 1946. A.B., Ohio University; M.A., Ohio State University. Professor Emeritus of Geography.
- Giles R. Floyd**, 1948. B.A., Wofford College; M.A., Vanderbilt University; Ph.D., University of Iowa. Professor Emeritus of English.
- Herbert J. Gauerke**, 1964. B.A., Capital University; M.A., University of Illinois; Ph.D., Marquette University. Professor Emeritus of German.
- Ralph H. Geer**, 1948. A.B., Defiance College; M.A., Ohio State University; Ed.D., Case Western Reserve University. Professor Emeritus of Education.
- Alice Greiner**, 1949. B.S.Ed., University of Cincinnati; M.S.Ed., Bowling Green State University. Associate Professor Emerita of Speech.
- Anna N. Grylling**, 1927. B.S., University of Minnesota; M.A., Columbia University. Assistant Professor Emerita of Mathematics.
- W. Heinlen Hall**, 1936. B.A., Muskingum College; Ph.D., Ohio State University. Professor Emeritus of Chemistry.
- Averill J. Hammer**, 1946. B.S., Parsons College; M.S., Ph.D., Iowa State University. Professor Emeritus of Chemistry.
- Robert D. Henderson**, 1954. B.B.A., Westminster College; M.B.A., Ohio State University; Ph.D., University of Pittsburgh. Professor Emeritus of Management.
- John H. Hepler**, 1949. B.A., M.A., Ohio Wesleyan University. Professor Emeritus of Speech.
- Laura E. Heston**, 1918. B.S., Ohio State University; M.S., University of Chicago. Professor Emerita of Home Economics.
- Mary C. Hissong**, 1938. B.S. Ed., M.A., Ph.D., Ohio State University. Associate Professor Emerita of English.
- Agnes M. Hooley**, 1954. B.S., University of Bridgeport; M.A., Teachers College, Columbia University; Ph.D., University of Wisconsin. Professor Emerita of Physical Education and Recreation.
- Robert R. Hubach**, 1947. B.A., University of Missouri; M.A., University of Colorado; Ph.D., Indiana University. Associate Professor Emeritus of English.
- Howard Huffman**, 1956. B.S. Ed., Willmington College; M.B.A., University of Denver; Ph.D., Ohio State University. Professor Emeritus of Quantitative Analysis and Control.
- Theodore J. Jensen**, 1965. Ph.B., University of Chicago; M.S., Ph.D., University of Wisconsin. Professor Emeritus of Education.
- Madge E. Johnson**, 1937. B.S., M.A., Ohio State University. Professor Emeritus of Education.
- William C. Jordan**, 1925. B.S., M.A., Ohio University. Professor Emeritus of Education.
- Howard H. Kane**, 1946. B.S. Ed., Ohio State University; B.S., B.A., University of Dayton; M.A., Ohio State University. Professor Emeritus of Quantitative Analysis and Control.
- Robert J. Keefe**, 1955. B.A., Brooklyn College; M.A., Ed.D., Columbia University. Professor Emeritus of Health and Physical Education.
- James Paul Kennedy**, 1936. B.A., William Penn College; B.M. Ed., M.M., Northwestern University; Ph.D., University of Iowa. Dean Emeritus of Music.
- Ruth K. Kilmer**, 1947. B.S. Ed., Duquesne University; B.S.L.S., Case Western Reserve University. Associate Professor Emerita, Library.
- Laura E. Kratz**, 1965. M.A., Ohio Wesleyan University; B.S., Ph.D., Ohio State University. Professor Emerita of Physical Education and Recreation.
- Ervin J. Kreisler**, 1937. B.S. Ed., Bowling Green State University. Treasurer Emeritus.
- Paul F. Leedy**, 1938. B.A. L.S., M.A., Ph.D., University of Michigan. Provost Emeritus; Professor Emeritus of English.
- Lowell P. Leland**, 1946. B.A., Colby College; M.A., University of Maine; Ph.D., Ohio State University. Professor Emeritus of English.
- Virginia E. Leland**, 1948. B.A., Carson-Newman College; M.A., Ph.D., University of Chicago. Professor Emerita of English.
- Milford S. Lougheed**, 1955. B.A.Sc., University of British Columbia; M.A., Ph.D., Princeton University. Professor Emeritus of Geology.
- Elizabeth Mackey**, 1965. B.A. Ed., Bowling Green State University; M.S., Ohio State University. Associate Professor Emerita of Home Economics.
- Lewis F. Manhart**, 1937. B.S. Ed., Bowling Green State University; M.A., Ohio State University. Professor Emeritus of Business Administration.
- Louis E. Marini**, 1964. B.P.S., Mt. Union College; M.A., Vandercook College of Music. Associate Professor Emeritus of Music.
- Clare S. Martin**, 1923. B.A., M.A., Ph.D., Ohio State University. Professor Emeritus of Chemistry.

Harry R. Mathias, 1931. B.A., M.A., Indiana University. Professor Emeritus of Mathematics.

Kenneth H. McFall, 1943. B.S., Mt. Union College; M.A., Ph.D., Case Western Reserve University. Professor Emeritus of Psychology, Vice President.

Robert E. McKay, 1944. B.A., M.S., Ohio State University. Assistant Professor Emeritus of Physics.

Virginia Merrell, 1969. B.A., Bowling Green State University; M.A.L.S., University of Michigan. Associate Professor Emerita of University Libraries.

Harvey D. Miner, 1947. B.S.Ed., Bowling Green State University; M.Ed., Ohio University. Associate Professor Emeritus of Industrial Education and Technology.

Dorothy Moulton, 1946. B.A., Randolph-Macon Woman's College; M.A., University of Pittsburgh; Ph.D., University of Michigan. Associate Professor Emerita of English.

C. Virginia Myers, 1946. B.A., College of Wooster; M.A., Radcliffe College; M. Litt., University of Cambridge, England. Assistant Professor Emerita of English.

Everett C. Myers, 1947. B.A., Case Western Reserve University; Ph.D., Johns Hopkins University. Professor Emeritus of Biology.

Harold B. Obee, 1946. B.A., Adrian College; M.A., Ph.D., Ohio State University. Professor Emeritus of Speech Communication.

Lorrene L. Ort, 1959. B.M., Oberlin College; M.A., Ph.D., Ohio State University. Professor Emerita of English.

Vergil K. Ort, 1956. B.A., Defiance College; M.A., University of Michigan; Ph.D., Ohio State University. Professor Emeritus of Education.

Charles H. Otis, 1930. B.A., Ph.D., University of Michigan. Professor Emeritus of Biology.

Beryl M. Parrish, 1946. B.S.Ed., M.A., Ohio State University. Associate Professor Emerita of English.

Doyt L. Perry, 1955. B.S., Bowling Green State University; M.A., Ohio State University. Professor Emeritus of Health and Physical Education.

Benjamin L. Pierce, 1939. B.A., Oberlin College; M.A., Columbia University; J.D., University of Michigan. Licensed attorney in Ohio. Dean Emeritus; Professor Emeritus of Business Administration.

Grover C. Platt, 1946. B.A., University of Iowa; M.A., Tufts University; Ph.D., University of Iowa. Professor Emeritus of History.

Virginia B. Platt, 1947. B.A., University of Washington; M.A., University of California, Berkeley; Ph.D., University of Iowa. Professor Emerita of History.

John K. Raney, 1939. B.Arch., Ohio State University. Assistant Professor Emeritus of Industrial Education.

Louise F. Rees, 1964. B.S., University of Illinois; Ph.B., Shurtleff College; M.A., University of Chicago. Professor Emerita of Library and Educational Media.

Robert G. Riegle, 1947. B.S.Ed., Bowling Green State University; J.D., Ohio State University. Licensed attorney in Ohio, federal courts, and I.C.C. Associate Professor Emeritus of Business Law.

Elfreda M. Rusher, 1950. B.S.Ed., Ohio Northern University; M.A., Ph.D., Ohio State University. Professor Emerita of Business Education.

William F. Schmeltz, 1947. B.B.A., University of Toledo; M.B.A., Harvard University; Ph.D., Case Western Reserve University. Professor Emeritus of Quantitative Analysis and Control.

Harold Skinner, 1965. B.S., Houghton College; M.M., Eastman School of Music. Professor Emeritus of Music Education.

Donnal V. Smith, 1961. B.S., Bowling Green State University; M.A., Ph.D., University of Chicago; LL.D., Bowling Green State University. Dean Emeritus of Students.

George R. Snyder, 1949. B.A., Heidelberg College; M.A., Ph.D., Ohio State University. Professor Emeritus of Education.

H. Glendon Steele, 1946. B.A., Northwestern University; M.A., Ohio State University. Associate Professor Emeritus of English.

Sidney Stone, 1944. B.A., M.A., Ohio Wesleyan University. Professor Emeritus of Speech Communication.

Galen Stutsman, 1950. B.S.Ed., M.A., Ph.D., Ohio State University. Professor Emeritus of Business Education.

Jacqueline E. Timm, 1946. B.A., M.A., Ph.D., University of Texas. Professor Emerita of Political Science.

Mae A. Tindall, 1941. B.A., Willamette University; M.A., Columbia University. Associate Professor Emerita of Education.

Amy Torgerson, 1947. B.S.Ed., Central Missouri State University; M.A., New York University. Professor Emerita of Health and Physical Education.

Tom Tuttle, 1946. B.A., M.A., University of Texas; Ph.D., University of Southern California. Professor Emeritus of Philosophy.

Harmon Voskuil, 1946. A.B., Hope College; M.A., University of Minnesota. Professor Emeritus of Economics.

Alice P. S. Wall, 1964. B.S.Ed., Miami University; M.S., Ohio State University. Associate Professor Emerita of Home Economics.

Willard Wankelman, 1946. B.S.Ed., M.A., Ohio State University. Professor Emeritus of Art.

Warren C. Waterhouse, 1959. B.Ed., University of Wisconsin; M.B.A., University of Denver; Ph.D., Northwestern University. Professor Emeritus of Management.

Mary A. Watt, 1954. B.S., Simmons College; M.S., Wellesley College; Ph.D., University of Iowa. Professor Emerita of Physical Education and Recreation.

Joseph E. Weber, 1937. B.A., M.A., Ph.D., Indiana University. Professor Emeritus of Chemistry.

Martha Gesling Weber, 1946. B.A., Ohio Northern University; M.A., Ohio State University; Ph.D., Duke University. Professor Emerita of Education.

John Everett Wenrick, 1947. B.A., M.A., Ph.D., Ohio State University. Professor Emeritus of Psychology.

Mary E. Whitney, 1952. B.S.Ed., University of Michigan; M.A., New York University. Professor Emerita of Physical Education and Recreation.

Ray C. Whittaker, 1949. B.S.Ed., M.Ed., Bowling Green University. Dean Emeritus of Students.

Robert H. Whittaker, 1941. B.S.Ed., Miami University; M.A., Bowling Green State University. Associate Professor Emeritus of Health and Physical Education.

Allen V. Wiley, 1946. B.A., M.A., Lafayette College. Associate Professor Emeritus of Economics.

Laura A. Wilson, 1964. B.A., Manchester College; M.S., Ohio State University. Professor Emerita of Home Economics.

Harry E. Wohler, 1946. B.A., Wittenberg University; M.A., University of Toledo. Assistant Professor Emeritus of Mathematics.

James C. Wright, 1947. B.A., Muskingum College; M.A., Ph.D., Ohio State University. Associate Professor Emeritus of Personal Development and Life Planning.

Charles W. Young, 1945. B.A., Ohio Wesleyan University; M.A., Ph.D., Ohio State University. Professor Emeritus of Education.

ACADEMIC ABBREVIATIONS

A&S (Arts and Sciences)
 AA (Associate of Arts)
 AAB (Associate in Applied Business)
 AAS (Associate in Applied Science)
 ACCT (Accounting)
 ACT (American College Test)
 AERO (Aerospace Studies)
 AERT (Aerotechnology)
 AMC (American Culture)
 AMS (Applied Mathematics and Science)
 AMST (American Studies)
 ART (Art)
 AS (Associate of Science)
 ASTR (Astronomy)
 BA (Business Administration or Bachelor of Arts)
 BAC (Bachelor of Arts in Communication)
 BAT (Business Management Technology)
 BEOG (Basic Educational Opportunity Grant)
 BFA (Bachelor of Fine Arts)
 BIOL (Biological Sciences)
 BLS (Bachelor of Liberal Studies)
 BM (Bachelor of Music)
 BS (Bachelor of Science)
 BSAM (Bachelor of Science in Applied Microbiology)
 BSBA (Bachelor of Science in Business Administration)
 BSCFS (Bachelor of Science in Child and Family Services)
 BSCJ (Bachelor of Science in Criminal Justice)
 BSD (Bachelor of Science in Dietetics)
 BSE (Bachelor of Science in Economics)
 BSEd (Bachelor of Science in Education)
 BSEH (Bachelor of Science in Environmental Health)
 BSG (Bachelor of Science in Gerontology)
 BSJ (Bachelor of Science in Journalism)
 BSMA (Bachelor of Science in Medical Records Administration)
 BSMT (Bachelor of Science in Medical Technology)
 BSN (Bachelor of Science in Nursing)
 BSPME (Bachelor of Science in Parasitology and Medical Entomology)
 BSSPA (Bachelor of Science in Speech Pathology and Audiology)
 BSSW (Bachelor of Science in Social Work)
 BST (Bachelor of Science in Technology)
 BUSE (Business Education)
 C&TE (Career & Technology Education)
 CDIS (Communication Disorders)
 CEEB (College Entrance Examination Board)
 CEU (Continuing Education Unit)
 CHEM (Chemistry)
 CLEP (College Level Examination Program)
 CONS (Construction Technology)
 CPA (Certified Public Accountant)
 CPP (Career Planning Profile)
 CRJU (Criminal Justice)
 CS (Computer Science)
 CSS (College Scholarship Service)
 CSP (College Student Personnel)
 CST (Computer Science Technology)
 DESN (Design Technology)
 ECON (Economics)
 Ed (Education)
 ESAS (Educational Administration and Supervision)
 EDCI (Educational Curriculum and Instruction)
 EDCO (College of Education)
 EDFI (Educational Foundations and Inquiry)
 EdS (Education Specialist)
 EDSE (Special Education)
 ENG (English)
 ENVH (Environmental Health)
 ENVR (Industrial Environment Technology)
 ENVS (Environmental Studies)
 ENVT (Environmental Health Technology)
 ET (Electronic Technology)
 ETHN (Ethnic Studies)

EXPR (Experimental Studies)
 FAF (Financial Aid Form)
 FFS (Family Financial Statement)
 FIN (Finance)
 FIRE (Firelands)
 FREN (French)
 GBA (Graduate Business Administration)
 GED (General Educational Development)
 GEOG (Geography)
 GEOL (GEOLOGY)
 GERM (German)
 GERO (Gerontology)
 GMAT (Graduate Management Admission Test)
 GPA (Grade Point Average)
 GRE (Graduate Record Examination)
 GRS (Graduate College)
 HCS (Health and Community Services)
 HED (Health Education)
 HIST (History)
 HOEC (Home Economics)
 IE (Industrial Education)
 INET (Industrial Education Technology)
 INS (Insurance)
 IPCO (Interpersonal and Public Communication)
 ITAL (Italian)
 JAPN (Japanese)
 JOUR (Journalism)
 L&EM (Library and Educational Media)
 LAS (Latin-American Studies)
 LAT (Latin)
 LEEP (Law Enforcement Education Program)
 LEGS (Legal Studies)
 LING (Linguistics)
 LSAT (Law School Admissions Test)
 MA (Master of Arts)
 MAcc (Master of Accountancy)
 MAT (Master of Arts in Teaching)
 MATH (Mathematics and Statistics)
 MBA (Master of Business Administration)
 MCAT (Medical College Admission Test)
 MEd (Master of Education)
 MEDT (Medical Technology)
 MFA (Master of Fine Arts)
 MFG (Manufacturing Technology)
 MGMT (Management)
 MILS (Military Science)
 MIS (Management Information Systems)
 MKT (Marketing)
 MM (Master of Music)
 MOD (Master of Organization Development)
 MRA (Medical Record Administration)
 MRC (Master of Rehabilitation Counseling)
 MRT (Medical Record Technology)
 MS (Master of Science)
 MUCH (Music Composition and History)
 MUED (Music Education)
 MUGS (Music Graduate Study)
 MUS (College of Musical Arts)
 MUSP (Music Performance Studies)
 NDSL (National Direct Student Loan)
 NTE (National Teachers' Examination)
 NURS (Nursing)
 OIG (Ohio Instructional Grant)
 OPRE (Operations Research)
 PEG (Physical Education, General)
 PEP (Physical Education, Professional)
 PhD (Doctor of Philosophy)
 PHIL (Philosophy)
 PHYS (Physics)
 POLS (Political Science)
 POPC (Popular Culture)
 PSYC (Psychology)
 RA (Resident Adviser)
 RED (Recreation and Dance)
 REHB (Rehabilitation Counseling)
 ROML (Romance Languages)

RTVF (Radio-TV-Film)
RUSN (Russian)
SAGE (Senior Adult Grants for Education)
SAT (Scholastic Aptitude Test)
SEOG (Supplemental Educational Opportunity Grant)
SOC (Sociology)
SOWK (Social Work)
SPAN (Spanish)
SPCH (Speech)
SSAN (Social Security Account Number)
SSM (Sports Studies and Management)
STAT (Applied Statistics)
TECH (Technology, School of)
THEA (Theatre)
TLC (Total Letter-graded Credits)
TOEFL (Test of English as a Foreign Language)
UD (University Division)
VCT (Visual Communication Technology)
WS (Women's Studies)

GLOSSARY

Academic year Three quarters: fall, winter, spring.

Accumulative grade point average Grade point average for all courses completed at the University. See grade point average.

Adviser Person in the department of the student's major who provides information and suggestions on courses, prerequisites, and requirements.

Associate degree Degree received, usually after two years, by completing all requirements as outlined in the *General Bulletin*.

Bachelor's degree Degree received, usually after four years, by completing all requirements as outlined in the *General Bulletin*.

Coed residence hall On-campus residence unit which houses both women and men, but in separate wings or floors.

Cognate Area of concentration in a subject related to the major field of study.

College Academic division of the University that offers programs through its departments.

Department Academic division of a college that offers one or more major programs of study.

Elective Course that may not fill a requirement, but that is taken for the student's intellectual growth or enjoyment.

General education requirements Courses that ensure a well rounded education. These differ from college to college, but generally cover such areas as English, science, and the humanities. Also known as group requirements.

General fee Fee paid by students to help finance University services and activities.

Grade point average Number between 0.00 and 4.00 derived by dividing the total number of quality points for a quarter by the number of credit hours taken. See example, page 9.

Grant Form of financial aid which does not have to be repaid.

Identification card Plastic card used for identification along with a validation card.

Instructional fee Fee paid by students to finance the cost of instruction not met by state funds.

Letter-graded credits Credits for those courses taken for a letter grade of A, B, C, D, or F. Used in computing academic honors.

Loan Form of financial aid that must be repaid with interest.

Major Subject of study in which a student takes a concentration of course work.

Minor Subject in which a student takes several courses, but fewer courses than for a major.

Orientation Series of presentations and discussions held at the beginning of each quarter to introduce new students to University activities, faculty, and services.

Preprofessional programs Course of study, usually two or three years, which prepares a student to enter a specialized professional school, such as a school of medicine or a theological seminary.

Prerequisite Requirement that must be met before enrolling in a course, usually completion of a more basic course in the same subject.

Quality points Number assigned to letter grades: A=4, B=3, C=2, D=1, F=0. No quality points are given for courses taken S/U. By multiplying the number of hours of credit a course is worth by the quality points for the grade received, the number of quality points per course is obtained. See grade point average.

Quarter School term that is eleven weeks long.

Quarter hour Unit of credit assigned generally for one hour of in-class work for a course.

R.A. Abbreviation for resident adviser, an upperclass student who lives in the residence hall and advises and counsels the hall's residents.

Scholarship Form of financial aid awarded for academic excellence; does not have to be repaid.

School Academic division of a college that is larger than a department.

Student Code Rules and regulations governing the behavior of BGSU students.

Summer session The eleven-week summer quarter, which is divided into two five-week terms.

Summer term A five-week division of summer quarter.

Transcript List of all courses completed and grades received; available from the Office of Registration and Records.

Undergraduate Term applied to a freshman, sophomore, junior, or senior who is working toward a bachelor's or associate degree.

Validation card Paper card issued each quarter that signifies registration and payment of fees for a particular quarter.

INDEX

Academic

Advising, 26, 30, 72, 97, 115
 Calendar, inside front cover
 Dismissal, 10
 Goals, 4
 Honesty, 232
 Honors, 9
 Load, 16
 Options, 11
 Organization, 5
 Policies, 7
 Probation, 10
 Services, 26
 Warning, 10
 Access to University, 8
 Accounting, 58
 Accreditation and Recognition, 5
 Accumulative Grade Point Average, 9
 Actuarial Science, 36, 45
 Address, Change of, 21
 Administration, 227
 Administrative Management, 59
 Admission Requirements, 13, 115
 Concurrent Enrollment, 15
 Evening Students, 15
 Firelands College, 115
 Foreign Students, 15
 Readmission of Former Students, 15
 Special Students, 15
 Transfer Students, 13
 Transient Students, 15
 Unclassified Degree Holder, 15
 Unclassified Undergraduate, 15
 Advanced Placement, 10
 Advertising, 59
 Advising, 53
 Aerospace Education, 74
 Aeronautics, 90
 Affirmative Action Policy, 8
 Afro-American Studies, 31
 American Studies, 31, 74
 Application Fee, 18
 Applied Microbiology, 98
 Architectural/Environmental Design, 91
 Archival Collections, 4
 Art, 31, 49, 74
 Art History, 32, 49
 Art, School of, 49
 Arts and Sciences, College of, 29
 Academic Advising, 30
 General Requirements, 30
 Graduates Certified to Teach, 48
 Programs Offered, 29
 Arts-Business Program, 48
 Arts-Education, 47
 Arts-Engineering, 45, 72
 Arts-Professional, 45
 Asia, Study in, 11
 Asian Studies, 32, 74
 Assistantships, Undergraduate, 22
 Associate Degree Requirements, 8
 Associate of Applied Business, 65, 121
 Associate of Applied Science, 122
 Associate of Arts, 118
 Astronomy, 43, 75
 Athletic Coaching, 86
 Athletic Training, 86
 Athletics
 Intercollegiate, 24
 Intramural, 25
 Audiology, 102
 Audit, 16
 Austria, Study in, 11
 Automobile Registration, 18

Baccalaureate Degree Requirements, 7
 Baccalaureate-Master's Programs, 48
 Bachelor of Arts, 30
 General Education Requirements, 30
 Majors and Minors, 31
 Bachelor of Arts in Communication, 51
 General Education Requirements, 51
 Specialized Program, 52
 Bachelor of Fine Arts (Art), 49
 General Education Requirements, 49
 Majors, 49
 Teacher Preparation, 50
 Bachelor of Fine Arts (Creative Writing), 43
 Bachelor of Liberal Studies, 43
 Bachelor of Music, 105
 General Requirements, 105
 Majors, 105
 Bachelor of Science, 39
 General Education Requirements, 39
 Majors and Minors, 39
 Bachelor of Science in Business Administration, 58
 General Education Requirements, 58
 Majors, 58
 Bachelor of Science in Economics, 65
 Bachelor of Science in Education, 72, 83, 84, 86
 General Education Requirements, 72
 Majors and Minors, 74, 83, 84, 86
 Professional Requirements, 72
 Student Teaching, 72
 Bachelor of Sciences (Health and Community Services), 97
 General Education Requirements, 97
 Bachelor of Science in Journalism, 67
 General Education Requirements, 68
 Bachelor of Science in Nursing, 103
 Bachelor of Science in Technology, 84, 90
 Basic Educational Opportunity Grant, 22
 Behavioral Disorders, 79
 BG News, 67
 Biological Sciences, 40, 75
 Bio-Medical Support, 123
 Board and Room, 21
 Board of Trustees, 227
 Bookkeeping and Basic Business, 75
 Brazil, Student Teaching in, 11, 74
 Broadcast Journalism, 68
 Broadcasting, 38, 51
 Business Administration, College of, 57
 Programs Offered, 57
 Business Administration-Education, 65, 72
 Business Education, 75
 Business Management Technology, 121
 Business Pre-Law, 59
 Business, Programs in, 32, 44, 57, 60
 Calendar, Academic, inside front cover
 Campus, 3
 Campus Map, inside back cover
 Canada, Student Teaching in, 11, 74
 Career Development, 26, 115
 Career Planning and Decision Making, 53
 Ceramics, 49
 Certification to Teach, 48, 72
 Change in Registration, 18
 Change of Address, 21
 Charge Cards, 19
 Charges, 17
 Chemistry, 40, 48, 75
 Child and Family Community Services, 98
 Child and Family Development, 84
 Child Care Services, 84
 Children's Services, 98
 Cinema, 33, 38, 51
 Classical Studies, 32
 Clothing and Textiles, 35
 Cluster Colleges, 54
 Code, Student, 221
 College, Change of, 8

College Level Examination Program, 53
 College Teaching, Preparation for, 44, 89, 90
 Colombia, Student Teaching in, 11, 74
 Communication Disorders, 38
 Communications, 38, 51, 76, 81
 Composition and Theory, 106
 Computer Science, 32, 41, 76
 Computer Electronic Technology, 122
 Computer Science Technology, 121
 Computer Services, 26
 Construction Technology, 91
 Continued Learning, 4
 Cooperative Education, 11
 Corrections, 99
 Counseling Services, 26, 53
 Courses
 Description of, 127
 Repeating, 10
 Crafts, 50
 Creative Writing, 43
 Credit
 by Examination, 10
 Charge for, 19
 Transcripts of, 16
 Transfer of, 14
 Criminal Justice, 99
 Cum Laude, 9
 Dance, 86
 Decision Making and Career Planning, 53
 Degree Offerings, 5
 Degree Requirements, 7, 8
 Degrees
 Associate of Applied Business, 65, 121
 Associate of Applied Science, 122
 Associate of Arts, 118
 Bachelor of Arts, 30
 Bachelor of Arts in Communication, 51
 Bachelor of Fine Arts (Art), 49
 Bachelor of Fine Arts (Creative Writing), 43
 Bachelor of Liberal Studies, 43
 Bachelor of Music, 105
 Bachelor of Science, 39
 Bachelor of Science in Business Administration, 58
 Bachelor of Science in Economics, 65
 Bachelor of Science in Education, 72, 83, 84, 86
 Bachelor of Science (Health and Community Services), 97
 Bachelor of Science in Journalism, 67
 Bachelor of Science in Nursing, 103
 Bachelor of Science in Technology, 84, 90
 Dentistry, Preparation for, 45
 Design, 50
 Design Technology, 91
 Developmental Education Program, 26, 116
 Dietetics, 84, 99
 Dismissal, Academic, 10
 Distributive Education, 76
 Dormitories, 20
 Drawing, 50
 Driver Education, 86
 Drop/add, 16
 Drosophila Stock Center, 4
 Dual Degree Programs, 7
 Early Admission, Graduate, 126
 Early Childhood Education, 83
 Earth Science, 76
 Economics, 32, 59, 76
 Editorial-News, 68
 Educable Mentally Retarded, 76
 Education-Business Administration, 65
 Education, College of, 71
 Academic Advising, 72
 Certification, 72
 General Requirements, 72
 Professional Requirements, 73
 Programs Offered, 74
 Student Teaching, 73
 Education, Cooperative, 11
 Electrical Technology, 122
 Electronic Technology, 92, 122
 Electro-Mechanical Technology, 122
 Elementary Education, 77, 120
 Employment, 22
 Engineering, Preparation for, 46
 English, 33, 77
 Enrollment, Concurrent, 15
 Entomology, 102
 Environmental
 Design, 50, 91
 Health, 100
 Health Technology, 123
 Problems, 4
 Research and Services, 4
 Science, 77
 Studies, 41
 Equal Educational and Employment Opportunity, 8
 Evening Program, 12
 Examination, Credit by, 10
 Fee, 19
 Executive Secretary Technology, 65, 121
 Faculty, 227
 Family and Child Community Services, 98
 Family Life Education, 83
 Family Services, 98
 Fashion Merchandising, 34
 Fees and Charges, 17
 Application, 18
 Audit, 19
 Automobile Registration, 18
 Change of Registration, 18
 Credit by Examination, 19
 Excess Credit, 19
 Firelands, 17
 Housing, 21
 Late Payment, 19
 Late Registration, 18
 Main Campus, 27
 Music, 19
 Nonresident, 17
 Payment of, 19
 Physical Education, 19
 Proficiency Examination, 19
 Refund of, 19, 21
 Room and Meal Plan, 21
 Student Teaching, 19
 Summer School, 18
 Transcript, 19
 Film, 33, 38, 51
 Finance, 60
 Financial Aid, 22, 116
 Firelands College, 3, 115
 Academic Advising, 115
 Admissions, 115
 Career Development, 115
 Counseling Services, 115
 Developmental Education Opportunities, 116
 Fees and Charges, 17
 Financial Aid, 116
 Housing, 115
 Life-Long Learning Courses, 117
 Library, 115
 Loans, 116
 Mission, 115
 Noncredit Courses, 117
 Organization, 117
 Placement, 115
 Pre-Baccalaureate Courses, 117
 Program Advisement, 115
 Programs Offered, 117
 Registration, 115
 Scholarships, 116
 Student Life and Activities, 116
 Student Services, 115
 Tutoring, 115

Food Science and Nutrition, 34
 Food Service Management, 84, 124
 Foreign Study, 11
 Forensics, 51
 France, Study in, 11
 French, 33, 77
 Freshmen, Programs for, 53
General Bulletin, 7
 General Business, 60
 General Studies, 11, 53
 Geochemistry, 41
 Geography, 33, 77
 Geology, 34, 41
 Geophysics, 41
 German, 34, 77
 Germany, Study in, 11
 Gerontology, 100
 Glossary, 249
 Government, 36, 80
 Grading Policy, 8
 Academic Honors, 9
 Grade Appeals, 9
 Grade Point Average, 9
 Grading System, 8
 Incomplete Marks, 9
 Graduate College, 126
 Graduate Study, Preparation for, 44
 Grants, 22
 Graphic Design, 50
 Handicapped Services, 27
 Health and Community Services, College of, 97
 Academic Advising, 97
 General Requirements, 97
 Programs Offered, 97
 Health Care Administration, 61
 Health Education, 86
 Health Insurance, 27
 Health, Physical Education, and Recreation, School of, 86
 Health Services, 27
 Hearing Impaired, 78
 Hearing, Speech Clinic, 27
 High School College Credit, 55
 High School Subjects Recommended, 13
 History, 34, 78
 History of University, 3
 Home Economics, 34, 44, 83
 Child and Family Community Services, 98
 Child and Family Development, 84
 Dietetics, 84, 99
 Early Childhood Education, 83
 Family Life Education, 83
 Fashion Merchandising, 34
 Food Science and Nutrition, 34
 Institutional Food Service, 84
 Interior Design, 34
 Restaurant Management, 84
 Textiles and Clothing, 35
 Honors, Academic, 9
 Honors Program, 11, 53
 Housing, 20, 115
 Fees, 21
 Off-campus, 21, 115
 Humanities, 118
 Human Resource Management, 61
 Human Services, 120
 Identification Card, 16
 Incomplete Marks, 9
 Independent Study, 55
 Individualized Planned Program, 31, 39
 Industrial Arts, 89, 90
 Industrial and Labor Relations, 61
 Industrial Education and Technology, 89
 Industrial Engineering Technology, 124
 Industrial Environment Technology, 92
 Industrial-Technical Education, 90
 Industrial Training Technology, 92
 Industrial-Vocational Education, 89, 90
 Institutional Food Service, 84
 Instructional Media Center, 27
 Insurance, 36, 61
 Intercollegiate Athletics, 24
 Interior Design, 34
 International Business, 62
 International Studies, 35, 78
 Interpersonal and Public Communication, 38
 Intramurals, 25
 Italian, 43, 78
 Japan, Study in, 11
 Jewelry and Metalsmithing, 50
 Jobs, part-time, 22
 Journalism, 67, 78
 School of, 67
 Key, 67
 Korea, Study in, 11
 Languages, 78
 Late Payment Charge, 19
 Late Registration Charge, 18
 Latin, 35, 79
 Latin-American Studies, 35, 79
 Law Enforcement, 22, 99
 Law, Preparation for, 46, 59
 Learning Disabilities and/or Behavioral Disorders, 79
 Liberal Studies, 43, 119
 Librarian/Media Specialist, 79
 Library, 3, 115
 Library and Educational Media, 43
 Library Work, Preparation for, 45
 Lifelong Learning Courses, 117
 Linguistics, 44
 Little College, 54
 Load, Academic, 16
 Loans, 23, 116
 Magazine Journalism, 68
 Magna Cum Laude, 9
 Major, Change of, 8
 Management Center, 4
 Management Information Systems, 62
 Manufacturing Technology, 93
 Map, inside back cover
 Marketing Research, 62
 Mass Media, 44
 Mathematics, 35, 41, 45, 79
 Meal Plans, 21
 Mechanical Design, 91
 Media, Campus, 67
 Media Center, 27
 Media Specialist/Librarian, 79
 Medical Entomology, 102
 Medical Record Administration, 101
 Medical Record Technology, 124
 Medical Technology, 101
 Medicine, Preparation for, 46
 Metalsmithing, 50
 Mexico, Student Teaching in, 74
 Microbiology, 40
 Microcomputer Systems, 32
 Moderately, Severely, and Profoundly Retarded Children, 79
 Mortuary Science, Preparation for, 46
 Musical Arts, College of, 105
 Programs Offered, 105
 Music
 Church, 111
 Composition and Theory, 106
 Double Major, 105
 Education, 80, 106
 History and Literature, 109
 Instrumental, 111
 Keyboard, 111
 Musical Theatre, 111
 Organizations, 105
 Performance Studies, 110
 Programs in, 36, 80, 105
 Recitals, 105
 Voice, 111

National Direct Student Loan, 23
 New Students, Programs for, 53
 News-Editorial, 68
 Newspapers, 67
 Nonresident Regulations, 17
 Nursing, 22, 103
 School of, 103
 Occupational Health and Safety Analysis, 123
 Occupational Therapy, Preparation for, 46
 Off-Campus Housing, 21, 115
 Off-Campus Instructional Programs, 11, 54
 Ohio Instructional Grant, 22
 Ohio National Guard, 23
 Ohio Resident, 17
 Operations Research, 62
 Options, Academic, 11
 Optometry, Preparation for, 47
 Organizations, 24, 116
 Music, 105
 Osteopathy, Preparation for, 47
 Outdoor Recreation, 88
 Painting, 50
 Paleobiology, 41
 Parasitology and Medical Entomology, 102
 Parking Services, 27
 Payment of Fees, 19, 21
 Pharmacy, Preparation for, 47
 Philosophy, 36, 80
 Philosophy Documentation Center, 4
 Photojournalism, 68
 Physical Education, 86
 Adapted, 87
 Elementary, 86, 87
 Fees, 19
 Secondary, 87
 Physics, 42, 80
 Placement, 27, 115
 Political Science, 36, 80
 Popular Culture, 36
 Center for the Study of, 4
 Pre-Baccalaureate Courses, 117
 Pre-Business, 119
 Pre-Professional Programs, 44
 Arts-Education, 47
 Arts-Engineering, 45
 Arts-Professional, 45
 Business, Preparation for, 44, 119
 Certification to Teach, 48
 College Teaching, 44
 Dentistry, 45
 Engineering, 46
 Home Economics, 44
 Law, 46
 Library Work, 45
 Mathematics, 45
 Medicine, 46
 Mortuary Science, 46
 Occupational Therapy, 46
 Optometry, 47
 Osteopathy, 47
 Pharmacy, 47
 Public Administration, 45
 Religious Work, 45
 Veterinary Medicine, 47
 Prints, 50
 Probation, Academic, 10
 Procurement and Materials Management, 63
 Product Design, 92
 Production and Operations Management, 63
 Proficiency Examination Fee, 19
 Psychological Services Center, 27
 Psychology, 37, 42, 80
 Public Administration, Preparation for, 45
 Public and Institutional Administration, 63
 Public Health, 124
 Public Policy and Affairs, 63
 Public Relations, 68
 Quebec, Student Teaching in, 11, 74
 Radio Stations, 51
 Radio-Television-Film, 38
 Readmission, 15
 Recreation
 Administration, 87
 Center, 25
 Leadership, 88
 Theatre, 88
 Refund of Fees, 19, 21
 Registration, 16, 115
 Drop/add, 16
 Late, Fee for, 18
 Schedule, 16
 Reinstatement, 10
 Religious Work, Preparation for, 45
 Repeating a Course, 10
 Residence Halls, 20
 Occupancy of Rooms, 20
 Responsibility, Personal Effects, 20
 Vacation Periods, 20
 Reserve Officers Training Corps, 12
 Restaurant Management, 84
 Retailing, 64
 Retarded Children, 79
 Room and Meal Fees, 21
 ROTC, 12
 Russian, 37, 81
 Russian Studies, 37
 SAGE, 12
 Sales Communication, 75
 Sales Management, 64
 Scholarships, 23, 116
 Science, 44, 81, 119
 Sculpture, 50
 Secondary Education, 72, 120
 Secretarial Administration, 64
 Selling and Sales Management, 64
 Senior Adult Grants, 12
 Services, University, 26
 Social Security Number, Use of, 16
 Social Science, 119
 Social Studies, 81
 Social Work, 102
 Sociology, 37, 81
 Spain, Study in, 11
 Spanish, 38, 81
 Speech Communication, 38, 51, 76, 81
 School of, 51
 Speech and Hearing Clinic, 27
 Speech and Hearing Therapy, 81
 Speech Pathology and Audiology, 102
 Statistics, 38, 42, 45, 64
 Stenography and Typing, 75
 Student Activities, 24, 116
 Athletics, 24
 Student Government, 24
 University Activities Organization, 24
 Student Assistantships, 22
 Student Code, 213
 Student Development Program, 23
 Student Financial Aid, 22, 116
 Student Government, 24
 Student Health Services, 27
 Student Life, 24, 116
 Student Organizations, 24, 116
 Student Recreation Center, 25
 Student Services, Firelands, 115
 Student Teaching, 73
 Eligibility, 73
 Fees, 19
 in Foreign Countries, 11, 74
 Requirements, 73

- Students
 - Transfer, 13
 - Transient, 15
 - Unclassified, 15
- Study Abroad, 11
- Summa Cum Laude, 9
- Summer Transition Program, 53
- Supplemental Educational Opportunity Grant, 23
- Teacher Certification, 48, 72
- Technical College Teaching, 89, 90
- Technology, School of, 89
- Television, 38, 51
- Textiles and Clothing, 35
- Theatre, 38, 51
- Thematic Quarters, 54
- Time-Flexible Degree Program, 53
- Transcripts of Credits, 16
 - Charge for, 19
- Transdisciplinary Speech Communication, 38
- Transfer Credit, 14
- Transfer Students, 13, 90, 93
- Transient Students, 15
- Trustees, Board of, 227
- Tutoring, 26, 115
- Typing and Stenography, 75
- Unclassified Students, 15
- University
 - Accreditation and Recognition, 5
 - Academic Goals, 4
 - Academic Organization, 5
 - Academic Policies, 7
 - Campus, 3
 - Degrees, 5
 - History of, 3
 - Honors, 11, 53
 - Services, 26
 - Withdrawal From, 8
- University Division of General Studies, 11, 53
- University Seminar, 53
- Veterans, 23
- Veterinary Medicine, Preparation for, 47
- Visual Communications Technology, 93
- Vocational-Industrial Education, 89
- Vocational-Industrial Teaching, 90
- Vocational Rehabilitation, 23
- Warning, Academic
- Washington Internship, 55
- Washington Semester, 55
- Water and Wastewater Treatment, 124
- Withdrawal From University, 8
- Women's Studies, 38
- Work Experience, 82
- Writing Proficiency Requirement, 7
- Yearbook, Student, 67

Alphabetical Index

Administration Building, 8
Admissions, 1
Alpha Chi Omega Sorority, 23
Alpha Delta Pi Sorority, 24
Alpha Epsilon Pi Fraternity, 64
Alpha Gamma Delta Sorority, 73
Alpha Phi Sorority, 20
Alpha Sigma Phi Fraternity, 60
Alpha Tau Omega Fraternity, 67
Alpha Xi Delta Sorority, 18
Alumni Center, 80
Amani, 51
Anderson Arena, 56
Anderson Hall, 76
Art Annex, 30
Art Building, 58
Arts and Sciences, College of, 8
Ashley Hall, 81
Batchelder Hall, 82
Bookstore, 59
Bromfield Hall, 77
Bursar, 8
Business Administration Building, 55
Campus Safety and Security, 51
Centrex Building, 47
Chapman Hall, 78
Chi Omega Sorority, 14
Commons, 51
Commuter Center, 43
Compton Hall, 83
Conklin Hall, 71
Darrow Hall, 84
Delta Gamma Sorority, 19
Delta Tau Delta Fraternity, 74
Delta Upsilon Fraternity, 63
Delta Zeta Sorority, 91
Dunbar Hall, 79
Education Building, 48
Educational Memorabilia Center, 49
Financial Aid, 59
Fine Arts Annex, 30
Fine Arts Building, 58
Founders Quadrangle, 3-6
French House, 22
Gamma Phi Beta Sorority, 17
Graduate College, 1
Greenhouse, 31
Guest House, 92
Hanna Hall, 45
Harmon Hall, 5
Harshman Quadrangle, 76-79
Hayes Hall, 40
Health and Community Services, 85
Health Center, 85
Home Economics Building, 2
Home Management House, 93
Housing, 59
Ice Arena, 88

Industrial Technology, 32
Information Booth, 89
Johnston Hall, 16
Kappa Delta Sorority, 21
Kappa Sigma Fraternity, 69
Kohl Hall, 50
Kreischer Quadrangle, 81-84
Library, 57
Life Sciences Building, 37
Lowry Hall, 4
Mathematical Sciences Building, 38
McDonald Quadrangle, 25-27
McFall Center, 1
Memorial Hall, 56
Mooney Hall, 3
Moseley Hall, 43
Musical Arts Center, 86
Music Building, 7
North Gymnasium, 41
Nursery School, 16
Offenhauer Towers, 28-29
Overman Hall, 39
Park Street Warehouse, 33
Parking Services, 51
Phi Delta Theta Fraternity, 68
Phi Kappa Psi Fraternity, 62
Phi Kappa Tau Fraternity, 54
Phi Mu Sorority, 15
Physical Plant, 34
Pi Kappa Phi Fraternity, 67
Popular Culture Center, 90
Power Plant, 95
Prout Chapel, 10
Prout Hall, 13
Psychology Building, 36
Recreation Center, 87
Registrar, 8
Rodgers Quadrangle, 52
Shatzel Hall, 9
Sigma Alpha Epsilon Fraternity, 61
Sigma Chi Fraternity, 72
Sigma Nu Fraternity, 75
Sigma Phi Epsilon Fraternity, 53
South Gymnasium, 42
South Hall, 46
Student Recreation Center, 87
Student Services Building, 59
Tau Kappa Epsilon Fraternity, 65
Technology Annex, 35
Technology Building, 32
Television Station, 94
Treadway Hall, 6
Union, 12
University Hall, 44
University Union, 12
Visitor Information, 89
Warehouse, 33
WBGU-TV, 94
Williams Hall, 11
Zeta Beta Tau Fraternity, 66

Numerical Index

1 McFall Center
2 Home Economics Building
3 Mooney Hall
4 Lowry Hall
5 Harmon Hall
6 Treadway Hall
7 Music Building
8 Administration Building
9 Shatzel Hall
10 Prout Chapel
11 Williams Hall
12 University Union
13 Prout Hall
14 Chi Omega Sorority
15 Phi Mu Sorority
16 Johnston Hall
17 Gamma Phi Beta Sorority
18 Alpha Xi Delta Sorority
19 Delta Gamma Sorority
20 Alpha Phi Sorority
21 Kappa Delta Sorority
22 French House
23 Alpha Chi Omega Sorority
24 Alpha Delta Pi Sorority
25 McDonald East Hall
26 McDonald North Hall
27 McDonald West Hall
28 Offenhauer West
29 Offenhauer East
30 Art Annex
31 Greenhouse
32 Technology Building
33 Warehouse
34 Physical Plant
35 Technology Annex
36 Psychology Building
37 Life Sciences Building
38 Mathematical Sciences Building
39 Overman Hall
40 Hayes Hall
41 North Gymnasium
42 South Gymnasium
43 Moseley Hall
44 University Hall
45 Hanna Hall
46 South Hall
47 Centrex Building
48 Education Building
49 Education Memorabilia Center
50 Kohl Hall
51 Commons
52 Rodgers Quadrangle
53 Sigma Phi Epsilon Fraternity
54 Phi Kappa Tau Fraternity
55 Business Administration Building
56 Memorial Hall
57 Library
58 Art Building
59 Student Services Building

60 Alpha Sigma Phi Fraternity
61 Sigma Alpha Epsilon Fraternity
62 Phi Kappa Psi Fraternity
63 Delta Upsilon Fraternity
64 Alpha Epsilon Pi Fraternity
65 Tau Kappa Epsilon Fraternity
66 Zeta Beta Tau Fraternity
67 Alpha Tau Omega/Pi Kappa Phi Fraternities
68 Phi Delta Theta Fraternity
69 Kappa Sigma Fraternity
71 Conklin Hall
72 Sigma Chi Fraternity
73 Alpha Gamma Delta Sorority
74 Delta Tau Delta Fraternity
75 Sigma Nu Fraternity
76 Anderson Hall
77 Bromfield Hall
78 Chapman Hall
79 Dunbar Hall
80 Alumni Center
81 Ashley Hall
82 Batchelder Hall
83 Compton Hall
84 Darrow Hall
85 Health Center
86 Musical Arts Center
87 Student Recreation Center
88 Ice Arena
89 Information Booth
90 Popular Culture Center
91 Delta Zeta Sorority
92 Guest House
93 Home Management House
94 WBGU-TV
95 Power Plant

